How Straighten Twisted Pair Wire
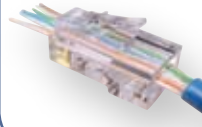
1) Save the cable jacket and separate the four cable wires
2) Slide the cable jacket between the twisted pairs
3) Untwist the wire by pushing the wire in the opposite direction of the twist.
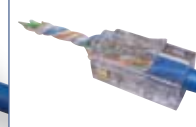4) When you reach the end, pinch the wire inside and pull outward to straighten.
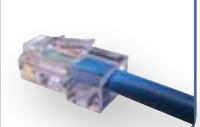
Slide wires thru the EZ-RJ45 Connector	Arrange wires in the proper order	Twist the wires and slide the connector into the cable jacket for a tight fit.	Crimp & Finished!!

Wire Stripper
- Designed for stripping the jacket on Cat 5, 5e cables.
- Will not nick inner conduct.

15015	$11.95

Crimp Tool for EZ-RJ
- Tool steel die head assembly provides 360° of connector support during crimp.

100054C	$86.95

The EZ-RJ45 Connectors, simplify twisted pair terminations by allowing the wire to be inserted through the connector and out the front. This allows the technician to easily verify the proper wiring order. Electrical performance of the termination is optimized by pulling the connector down over the cable jacket and seating it tightly in the rear of the connector. It also guarantees that the wires will be properly flush to the front of the connector.

202003J	EZ-RJ45® Connectors, 100 Pc. Jar	$62.00
202035J	Strain Relief for EZ-RJ45 Cat 5e Connector. Jar of 100	$24.00
202010J	EZ-RJ45® Cat 6+ Connectors, 100 Pc. Jar	$70.00
202036J	Strain Relief EZ-RJ45 Cat6+ & Shielded Cat5e Connector, Jar of 100	$24.00

Twisted Pair Crimp Tools

Modular Crimp Tool

TeleMaster™ Crimp Tool Kit
- Tool for RJ-11(1,2,3pair) & RJ-45 (4pair) plugs
- 10 4-Position, RJ-11 Stranded Modular Plugs
- 10 6-Position, RJ-11 Stranded Modular Plugs
- 10 8-Position, RJ-45 Stranded Modular Plugs

33-700	TeleMaster™ Crimp Tool Kit	$54.45

Ratchet Telemaster
- Ratchet version of popular Telemaster™ Tool for RJ-45 and RJ-11 modular plugs.
- Telephone tool cuts, strips, & crimps.
- Repeatable crimp action for high quality connections

30-696	Ratchet Telemaster	$68.90

All-in-one crimping tool for Western Electric (WE)/Stewart Stamping (SS)-type, 6- and 8- position modular telephone plugs. Cuts & strips. Ratchet controlled to master the tension of the tool for ease of use.

- Embedded flat cable cutter and stripper.
- Crimps 8- position RJ45 connectors and 4- and 6- position RJ11 and RJ12 connectors.
- Crimps AWG 28-24 telephone and data cables.

11212530	Modular Crimp Tool	$49.00

Telemaster Kits

33-750:
- Basic termination kit for 10Base-T
- Includes, UTP/Coax Stripper, Telemaster RJ-11/RJ-45 Tool, (50) 8-Position RJ-45 Non-Keyed Solid Plugs

33-704:
- Basic kit with multifunctional telephone tool to cut, strip, and crimp
- Kit includes, Telemaster™ for RJ-11/RJ-45 Plugs, (15) 4-Position, RJ-11 Stranded Modular Plugs, (15) 6-Position, RJ-11 Stranded Modular Plugs, (15) 8-Position, RJ-45 Stranded Modular Plugs

33-750	Economy 10Base-T Telemaster Kit	$115.00
33-704	RJ-45, RJ-11 Telemaster™ Kit	$78.00

33-750   33-704

Data/Video Kit

Kit includes professional tools to terminate both coax and twisted pair cables. VDV gives user the ability to test terminated cables.

- Data/Video Kit
- Data T-Cutter
- 7-in-1 Screwdriver
- UTP Stripper
- Coax Stripper w/ replacement Cartridge
- Punchmaster II Punch Down Tool w/ 110 Blade
- 110/66 Blade combo punch down blade

- Crimpmaster Crimp Tool for RJ-45 Modular Plug
- OmniSeal XL Compression Tool
- Probe Pic and Spudger
- F/BNC Connector Insertion/Removal Tool
- VDV Multimedia Cable Tester
- Amplifier Probe
- Electrician's Scissors w/ Stripping Notch
- Large Mouth Bag- 13 in.

33-917	Data & Video Kit	$519.95

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HDMI® (High-Definition Multimedia Interface) is a compact audio/video interface for transmitting uncompressed digital data. It is a digital alternative to consumer analog standards, such as radio frequency (RF) coaxial cable, composite video, S-Video, SCART, component video, D-Terminal, or VGA. HDMI® connects digital audio/video sources (such as set-top boxes, DVD players, HD DVD players, Blu-ray Disc players, AVCHD camcorders, personal computers (PCs), video game consoles and AV receivers to compatible digital audio devices, computer monitors, video projectors, tablet computers, and digital televisions.

Now with the cost effective Greenlee Professional Field Terminating HDMI®* Solutions, reduced cable clutter and custom length cables are just minutes away.

Pro Deluxe Kit
- Make custom length, premium HDMI® cables.
- Eliminates cable clutter.
- Costs less than pre-terminated cables.

Pro Kit
- Make custom length, premium HDMI® cables.
- Eliminates cable clutter.
- Costs less than pre-terminated cables.

Kit Includes:
- PA1192 HDMI® HDFT™ Cable Prep Tool
- PA8700 HDMI® HDFT™ Termination Tool
- (10) HDCN24-10 HDMI®* Field Terminating Connectors
- PA1175 Media Cable Cutter
- TC-30 Deluxe Carrying Case

Kit Includes:
- PA1192 HDMI®* HDFT™ Cable Prep Tool
- PA8700 HDMI®* HDFT™ Termination Tool
- HDCN24-10 HDMI®* Field Terminating Connectors

PA4017	Pro Deluxe Kit	$199.99

PA4019	Pro Kit	$169.99

24 AWG Field Terminating Cable
- Use with Greenlee® HDFT™ Connectors.
- Make premium HDMI®* High Speed with Ethernet cables.
- Supports HDMI®* 1.4 features: 3D, Ethernet and Audio Return.
- 100' 24 AWG HDFT™ cable.
- Solid-core long grain copper.
- Fifth twisted pair for Ethernet and audio return.

- Other HDMI®* 1.4** features supported: 10.2 Gbps Data Rate, 3D Video Formats, Deep Color and 4k x 2k Resolution.

HDMI Field Terminating Connectors
- Make custom length, premium HDMI® cables.
- Eliminates cable clutter.
- Costs less than pre-terminated cables.
- 10 or 50 pack – 24 AWG HDFT™ Connector Components.
- Use With Greenlee® 24 AWG HDMI®* Field Terminating Cable only.
- Includes main connector terminal block and wire guides.
- Guides are mated and color coded for 24 AWG HDMI Field Terminating cable.
- Make custom length, premium HDMI®* High Speed with Ethernet cables.

FTHD24-100	24 AWG HDMI Field Terminating Cable	$299.00

HDCN24-10	HDMI Field Terminating Connectors (10 Pack)	$68.00
HDCN24-50	HDMI Field Terminating Connectors (50 Pack)	$299.99

HDMI Cables

Designed to ensure a perfect transfer of digital video & multi channel audio signal.

- Supports resolutions 480I, 480P, 1080I, 1080P
- Version 1.3B
- Gold-Plated connectors
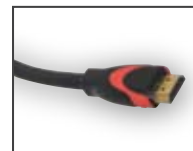
Supports 1080P, 3D & 4k over HDMI. Ethernet Channel will allow ethernet enabled HDMI devices to share ethernet connections with other HDMI devices without the need for a separate ethernet cable.

- Version 1.4

	Right Angle		Flat	
3'	CHHR3	$12.35	CHHF3	$12.35
6'	CHHR6	$16.25	CHHF6	$16.25
10'	CHHR10	$21.90	CHHF10	$21.90
15'	CHHR15	$30.15	CHHF15	$30.15
25'	CHHR25	$65.55	CHHF25	$65.55

HDMI14-3	HDMI 1.4 w/Ethernet 3'	$11.50
HDMI14-6	HDMI 1.4 w/Ethernet 6'	$14.15
HDMI14-10	HDMI 1.4 w/Ethernet 10'	$20.45
HDMI14-15	HDMI 1.4 w/Ethernet 15'	$36.25
HDMI14-CL25B	HDMI 1.4 w/Ethernet 25'	$82.55
HDMI14-CL35B	HDMI 1.4 w/Ethernet 35'	$125.00
HDMI14-CL50B	HDMI 1.4 w/Ethernet 50'	$149.95

SVGA HD15 Cables

HDMI Extender

HDMI Extender by CAT-5e uses two pieces of CAT-5e cables to extend the HDTV display up to 30 meters. For Cat6 users only one cable is required.

Length	Pin Cables		with 3.5mm Stereo	
6'	C15M15MS6	$13.50	C15M15FS6	$13.50
10'	C15M15MS10	$17.85	C15M15FS10	$17.85
15'	C15M15MS15	$22.95	C15M15FS15	$22.95
25'	C15M15MS25	$33.95	C15M15FS25	$33.95
50'	C15M15MS50	$59.95	C15M15FS50	$59.95
100'	C15M15MS100	$115.00	C15M15FS100	$115.00

HHEX5E	HDMI Extender via 2x Cat5e Cables	$95.00
HHEX6	HDMI Extender via Single Cat6 Cable	$149.00

Category 6 Patch Cable

UPT244P73L6	3' Category 6 Patch Cable	$2.35/ea
UPT244P77L6	7' Category 6 Patch Cable	$2.85/ea
UPT244P710L6	10' Category 6 Patch Cable	$3.65/ea
UPT244P714L6	14' Category 6 Patch Cable	$5.70/ea
UPT244P725L6	25' Category 6 Patch Cable	$7.65/ea

Category 5e Patch Cable

UPT244P73L5	3' Category 5e Patch Cable	$0.95/ea
UPT244P77L5	7' Category 5e Patch Cable	$1.50/ea
UPT244P710L5	10' Category 5e Patch Cable	$1.90/ea
UPT244P714L5	14' Category 5e Patch Cable	$2.50/ea
UPT244P725L5	25' Category 5e Patch Cable	$3.95/ea

Connect your workstations, printers, servers, and other devices with these cat.5E or cat.6 patch cables

- Connects RJ45 Male to RJ45 Male.
- Designed-in Snag-Less moldings
- The 50-Micron Gold Plated Connectors maintain High Bandwidth & Maximum Data Signal Integrity
- Made of Lead-Free & Environmentally Safe Materials
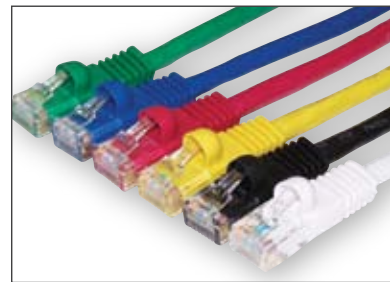
PANDUIT®

RJ45 Plug Lock-in Device

Flush - Works with flush mount jacks

PSL-DCPL	10 RJ45 plug lock-in device (1) install tool	$42.95
PSL-DCPL-C	100 RJ45 plug lock-in device (5) install tools	$335.00

Recessed- works with reccessed jacks

PSL-DCPLR	10 RJ45 plug lock-in device (1) install tool	$42.95
PSL-DCPLR-C	100 RJ45 Plug lock-in device (5) install tools	$335.00

*Install tool is also needed to remove lock-in device

The RJ45 plug lock-in device is an innovative solution that secures connection to reduce network downtime, data security breaches, and hardware replacement due to theft.

The versatile design works with most existing patch cords, faceplates, patch panels, IP cameras & other IP devices

Gigabit Loopback Jack & Plug

The Gigabit Loopback Jack & Plug quickly and easily checks the RX/TX pairs of 1000 BASE network cables, helping a network technician determine if a network signal exists of if there are broken or shorted wires within the cabling. Also is backwards compatible with 10base and 100base networks.

STO34LT02-06-001	Gigabit Loopback Jack & Plug	$8.25

Ethernet Crossover Adapter

The SuperLooper Gigabit Crossover Adapter converts any standard Ethernet patch cable to a crossover cable for 1000 BASE networks. Used with a standard ethernet patch cable, this product can network two computers in a gigabit networks without requiring a hub

STO34LT02-07-001	Gigabit Crossover Adapter	$6.95

PANDUIT®

Category 6 Patch Panel Couplers and Jack Couplers

- Coupler panel ports provide fast and easy plug and play connection of 6 and 8-position RJ45 patch cords
- No tools required
- Designed to exceed performance requirements of the ANSI/TIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class E channel standards
- Contacts plated with 50 microinches of gold for superior performance
- Can be clearly identified with optional labels and icons
- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket

CP24688BL	24-port, Category 6, patch panel	$320.00

- Designed to exceed requirements of the ANSI/TIA-568-C.2 Cat 6 & ISO 11801 2nd Edition Class E channel standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications module provides plug and play connection of 6 & 8-position RJ45 cords
- No tools required
- Contacts plated with 50 microinches of gold for superior performance

CC688IW*	Cat.6 RJ45, 8-position, 8-wire coupler module	$14.25

Category 5e Patch Panel Couplers and Jack Couplers

- Coupler panel ports provide fast and easy plug and play connection of 6 and 8-position RJ45 patch cords
- No tools required
- Designed to exceed ANSI/TIA-568-C.2 Category 5e and all ISO 11801 2nd Edition Class D channel requirements at swept frequencies up to 100 MHz
- Contacts plated with 50 microinches of gold for superior performance
- Can be clearly identified with optional labels and icons
- Mounts to standard EIA 19" rack or 23" racks with optional extender bracket

CP245E88BLY	24-port, Category 5e, patch panel	$245.00

- Designed to exceed performance requirements of the ANSI/TIA-568-C.2 Category 5e and ISO 11801 2nd Edition Class D channel standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
- No tools required
- Contacts plated with 50 microinches of gold for superior performance

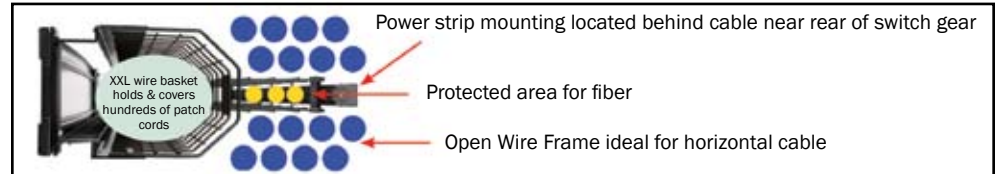|		
CC5E88IW*	Cat.5e RJ45, 8-position, 8-wire coupler module	$10.25

*Replace IW (White) for BL for Black.

Hubbell's NextFrame® XXL cable management vertical organizers have been designed for today's high density, high port count applications providing a simplistic way to manage and organize any type of communications cable.

The XXL design addresses two issues: larger cable diameter and separation of cables. XXL vertical organizers allow for the management of patch cords in the front and horizontal cable in the rear. Instead of combining cables from adjoining bays ('H' – Style), the XXL vertical organizers separate managed bundles on either side of the "Y", providing improved identification and access.

XXL's open design leaves horizontal cable unimpeded and accessible, while simplifying bundling and neatly securing them in place, allowing for future expansion with minimal effort.

Equipment Racks

Vertical Organizers

XXL wire basket holds & covers hundreds of patch cords

Power strip mounting located behind cable near rear of switch gear

Protected area for fiber

Open Wire Frame ideal for horizontal cable

Front

Back

NEXTFRAME 3" and 6" Equipment Racks

Finish	Rack Units	Depth	Height	19" Wide Equipment Rack		23" Wide Equipment Rack	
Black	24	3"	48" (1219)	HPW48RR19	$178.00	HPW48RR23	$270.00
	36		68.5" (1676)	HPW66RR19	$195.00	-	
	45		84" (2134)	HPW84RR19	$165.00	HPW84RR23	$342.30
	48		89.7" (2286)	HPW90RR19	$285.00	HPW90RR23	$370.00
	51		96" (2438)	HPW96RR19	$279.00	HPW96RR23	$365.00
Black	45	6"	84" (2134)	HPW84RR19D	$298.00	-	

Not eligible for free shipping

XXL Series Vertical Organizers

Door Insert	Channel Depth	6" Wide		10" Wide		15" Wide	
Silver	14 1/8	XS0610	$710.00	XS1010	$780.00	XS1510	$805.00
Silver	18 7/8	XS0615	$725.00	XS1015	$795.00	XS1515	$820.00
Black	14 1/8	XS0610BK	$710.00	XS1010BK	$780.00	XS1510BK	$805.00
Black	18 7/8	XS0615BK	$725.00	XS1015BK	$795.00	XS1515BK	$820.00

Not eligible for free shipping

*Note: Channel Depth does not include rear cable organizer. Rear cable organizer depth is 7 3/4"
Delivery Includes: Front and rear vertical organizer, door, 16 - 3" black cable management spools.

Z-Channel Vertical Organizer

- 2 Z channels, 38.5"H x 12.5"D
- 2-38.5" Covers
- 4 Hinges and Gates
- 24 Spools
- 4 ½"-13x1" Bolt w/nut and lock washer

Color	Rack Height In. (mm)	6" Wide		4 1/2" Wide		3 1/4" Wide	
Black	7" (2134)	VS76H	$325.75	VS74H	$325.75	VS73H	$328.75
Black (no hinge cover)	7" (2134)	VS76	$175.00	VS74	$175.00	VS73	$101.00

C-Channel Vertical Organizer

- 2 C channels, 38.5"H x 3.25"W x 10.5"D*
- 24 spools
- 4 Bolt, nut, washer ½" - 13 x 1"

Rack Height Inches (mm)	Black Catalog #	
7" (2134)	VS73*	$101.00

* Add "**A**" at the end of the Catalog # for Aluminum

Call for Volume Discounts

Airflow
- Intuitive design optimizes airflow by creating designated cable pathways away from center of cabinet
- Can be used in front to rear, side to side, and bottom to top airflow configurations

Security
- 3-Point door locking system
- Standard locks for side covers

Administration
- Easier to identify and trace ports and cables
- Cable management spools with label fields to identify bundles of cable
- Unobscured cable pathways simplify tracing cables

Space Utilization
- Enhanced cable management features allow cable storage in the cabinet

Response Time
- Rack positions are identified on all four uprights aiding the installation of new gear
- Cable management spools snap into place
- Optional split rail kits maximize cabinet utilization by accommodating servers and switchgear in one cabinet

Aesthetics
- Stylized look enhances appearance of any computer room
- Cable management focused design manages and conceals cable bundles

*Network Cabinet							
Type	Rack Units	Height	Width	Depth	Color	Catalog No.	
Standard w/sides	43	80"	30"	32"	Black	H2N8032	$2160.00
Standard w/sides	43	80"	30"	36"	Black	H2N8036	$2175.00
Standard w/sides	45	84"	30"	32"	Black	H2N8432	$2175.00
Standard w/sides	45	84"	30"	36"	Black	H2N8436	$2190.00
Seismic Z4 w/sides	43	80"	30"	32"	Black	H2N8032Z4	Call for pricing
Seismic Z4 w/sides	43	80"	30"	36"	Black	H2N8036Z4	Call for pricing
Seismic Z4 w/sides	45	84"	30"	32"	Black	H2N8432Z4	Call for pricing
Seismic Z4 w/sides	45	84"	30"	36"	Black	H2N8436Z4	Call for pricing
Without sides	43	80"	30"	32"	Black	H2N8032E	$1920.00
Without sides	43	80"	30"	36"	Black	H2N8036E	$1935.00
Without sides	45	84"	30"	32"	Black	H2N8432E	$1935.00
Without sides	45	84"	30"	36"	Black	H2N8436E	$1950.00
*Server Cabinet							
Standard w/sides	43	80"	24"	42"	Black	H2S8042	$1777.00
Seismic Z4 w/sides	43	80"	24"	42"	Black	H2S8042Z4	Call for price
Without sides	43	80"	24"	42"	Black	H2S8042E	$1945.00

*Not eligible for free shipping

Joining Kit

6 each of the following: ¼"-20 x ¾" hex bolts, ¼" lock washers, ¼" flat washers, ¼"-20 hex nuts

Jointing Kit	HPWJKIT	$23.00

Caster Kit

Caster Kit	H2KMB	$315.00

Vertical Cable Management Bar

For 80" Cabinet	H280CM	$63.85
For 84" Cabinet	H284CM	$63.85

Equipment Shelves

Content: Stationary 16ga shelf, #12-24 mounting hardware

Equipment Shelves, Cantilevered				
Solid	50lb	3.5"L x 17"W x 14"D	MCCCS19	$55.65
Perforated	50lb	3.5"L x 17"W x 14"D	MCCCS19P	$70.20
Solid	200lb	7.0"L x 19"W x 20"D	MCCCWS19HD	$158.65
Equipment Shelves, Center-Weighted				
Solid	75lbs	3.5"L x 17"W x 19"D	MCCCWS19	$72.15

Cabinet Fan Kit, 460 CFM

Enclosure will accept 2 Fan Kits

Network Cabinet Fan Kit	H2KNF	$380.00
Server Cabinet Fan Kit	H2KSF	$385.00

4-Post, 19" Equipment Rack

Rack Units	Overall Height	Usable Height	Overall Width	Depth	Hole Type	Color	Catalog No.	
45	84"	79"	20.2"	24"	#12-24 Threaded	Black	SF841924T	$565.00
45	84"	79"	20.2"	29.23"	#12-24 Threaded	Black	SF841929T	$585.00
45	84"	79"	20.2"	36"	#12-24 Threaded	Black	SF841936T	$625.00
45	84"	79"	20.2"	24"	Square M6	Black	SF841924	$635.00
45	84"	79"	20.2"	29.23"	Square M6	Black	SF841929	$665.00
45	84"	79"	20.2"	36"	Square M6	Black	SF841936	$695.00

Not eligible for free shipping

Call for Volume Discounts

Pre-configured grounding kits for outfitting racks, cabinets, and pathways

On-Rail Kits

| | | 19" Horizontal Busbar: | | Busbar to BN Lug (DA), 60" 6AWG, (2) #12-24 screws and nuts, (2) ¼" washers | ESD port for 4mm banana plug | 5" Velcro® cable management strap | 0.5oz Tube Penetrox A Antioxidant | |
		HBBBHR19KT	HBBBHR19KTTP					
		- (2) M6 screws, (2) #12-24 screws for mounting, - (8) 6-32 thread forming screws for lug attachment						
	Notes	**RGB Busbar**		**Busbar Conductor**		**Security**		
HGRKTHC	Horizontal on-rail	1	-	1	1	2	1	$85.00
HGRKTHC10	Horizontal on-rail, bulk	10	-	10	10	20	10	$710.00
HGRKTHT	Horizontal on-rail, tin plated	-	1	1	1	2	1	$98.00
HGRKTHT10	Horizontal on-rail, bulk, tin plated	-	10	10	10	20	10	$840.00

In-Cabinet Kits

		36" Vertical Busbar:		Busbar to BN Lug (DA), 60" 6AWG, (2) #12-24 screws and nuts, (2) ¼" washers	ESD port for 4mm banana plug	5" Velcro® cable management strap	0.5oz Tube Penetrox A Antioxidant	
		HBBBVR36KT	HBBBVR36KTTP					
		(3) M6 screws, (3) #12-24 screws for bus(8) 6-32 thread forming screws for lug attachment	(3) M6 screws, (3) #12-24 screws for busbar mounting, (16) 1/4-20 thread forming screws for lug attachment					
	Notes	**RGB Busbar**		**Busbar Conductor**		**Security**		
HGRKTVC	Vertical in-cabinet	1	-	1	1	2	1	$105.00
HGRKTVC10	Vertical in-cabinet, bulk	10	-	10	10	20	10	$898.00
HGRKTVT	Vertical in-cabinet, tin plated	-	1	1	1	2	1	$119.00
HGRKTVT10	Vertical in-cabinet, bulk, tin plated	-	10	10	10	20	10	$1025.00

Busbars

Insulators & Mounting Included	TGB: 2" x 24" Mounting for 9 x d & 9 x DA Lugs		TMGB: 4" x 16" Mounting for 16 x DA &16x DB Lugs	
Copper	HBBB14224B	$161.55	HBBB14416H	$193.85
Copper, Tin Plated	HBBB14224BTP	$210.80	HBBB14416HTP	$253.85
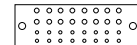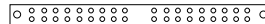
Ground Wire Kits
- Complete solution for grounding standards and tailored to each installation

Typical Applications Include
- Equipment to on-rail/in-cabinet busbar
- On-rail/in-cabinet busbar to TGB
- Equipment to TGB
- Rail/cabinet to TGB

Lug Key	Hole Dia	Hole Spacing	Angle
D	0.25"	0.625"	-
DA	0.25"	0.75"	-
DB	0.375"	1.0"	-
DF	0.25"	0.625"	45
DN	0.25"	0.625"	90

6 AWG Ground Wire Kit Contents

Lug
- Traceable crimped, die indexed 7 Long barrel, inspection window

Labels
- Caution label applied at both ends
- Circle ground sticker

Antioxidant
0.5oz tube Penetrox A

Hardware
- (2) #12-24 stainless steel thread forming screws
- (2) M6 stainless steel thread forming screws
- (2) ¼-20 stainless steel hex bolts
- (2) ¼-20 stainless steel nuts

- (2) ¼" stainless steel washers
- (2) 3/8-16 stainless steel hex bolts
- (2) 3/8-16 stainless steel nuts
- (2) 3/8" stainless steel washer

Complete Installation Ground Wire Kit Part # Configurator

To create a ground kit part number, add 3 characteristics to the base HGRKT. For Example HGRKTDA30DN

BASE Catalog #	LUG 1 Catalog #	LENGTH Catalog #	LUG 2 Catalog #
HGRKT	D DA DB	30 45 60 90 144	D DF DN DA DB
HGRKT	DA	30	DN

Catalog #	Lug 1	Wire Length	Lug 2	Accessories	
HGRKTD30DF	D	30"	DF: 45 Deg	Hardware & Accs Included	$42.75
HGRKTD30DN	D	30"	DF: 90 Deg	Hardware & Accs Included	$42.20
HGRKTD45DN	D	45"	DN: 90 Deg	Hardware & Accs Included	$44.35
HGRKTX60DN	No Lug	60"	DN: 90 Deg	Hardware & Accs Included	$42.65

Call for Volume Discounts

- Modular System — Easily Configured for New and Existing Cable Routing
- Mounts to Floors, Walls, Ceilings, Equipment Racks and Cabinets
- Tip: Secure Ladder to Cabinet Tops Using J-Bolt Kit & Drilling Holes as Required
- RoHS Compliant
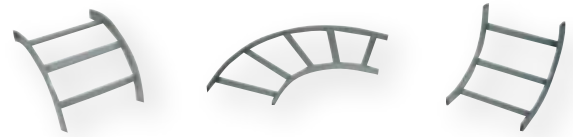
Straight Sections

Width inches	6' (1829) length			10' (3048) Length		
	Black	Gray		Black	Gray	
6" (152)	HLS0606B	HLS0606G	$46.85	HLS1006B	HLS1006G	$72.00
12" (305)	HLS0612B	HLS0612G	$50.65	HLS1012B	HLS1012G	$79.65
18" (457)	HLS0618B	HLS0618G	$58.40	HLS1018B	HLS1018G	$110.85
24" (610)	HLS0624B	HLS0624G	$79.65	HLS1024B	HLS1024G	$110.85

Free shipping not included

90° Turns

Width Inches	Inside 90° Black		Flat turns 90° Black		Outside 90° Black	
6"	HLI0690B	$56.05	HLF0690B	$130.00	HLO0690B	$56.05
12"	HLI1290B	$58.05	HLF1290B	$135.00	HLO1290B	$58.05
18"	HLI1890B	$62.05	HLF1890B	$135.00	HLO1890B	$62.20
24"	HLI2490B	$66.05	HLF2490B	$154.65	HLO2490B	$66.05

Width Inches	Inside 90° Gray		Flat Turns 90° Gray		Outside 90° Gray	
6"	HLI1290B	$56.05	HLF0690G	$130.00	HLO0690G	$56.05
12"	HLI1290G	$58.05	HLF1290G	$135.00	HLO1290G	$58.05
18"	HLI1890G	$62.05	HLF1890G	$135.00	HLO1890G	$62.20
24"	HLI2490G	$66.05	HLF2490G	$154.65	HLO2490G	$66.05

Free shipping not included

Accessories

Butt Splice Kit
Finish: Black Powder Coat

HLBSK	$7.25

Cable Radius Drop
Finish: Black Powder

	Ladder Width	Actual Width	
HLCD06	6"	4.5"	$49.60
HLCD12	12"	10.75"	$73.25
HLCD18	18"	16.75"	$74.40
HLCDS	stringer	7.5"	$50.25

Cable Retaining Fence Posts

	Nom Height	Actual Height	
HLP06XX	6"	8.3"	$13.90
HLP10XX	10"	12.4"	$15.15
XX = Color: **B** (Black) and **G** (Gray)			

Ceiling Mounting Kit

HLCMK	Ceiling mounting kit with two 6' threaded rods	$52.05
HLCF	Brackets only	$34.65

Triangle Wall Support

	Width	
HLTSB06XX	6"	$26.00
HLTSB12XX	12"	$30.95
HLTSB18XX	18"	$32.75
HLTSB24XX	24"	$34.75

XX = Color: **B** (Black) & **G** (Gray)

Vertical Wall Bracket
Finish: Black Powder Coat

HLVWBK	$7.50

Wall Angle Support
Color: Black

	Width	
HLX0612*	6-12"	$20.55
HLX1518*	18"	$21.00
HLX24*	24"	$22.95

*Add "**G**" to part number for Gray.

Wall/Rack Mounting Kit

Contents:	1 HLMPK19, 1 HLX0612, 1 40" L X 12" W ladder section	
HLWRK	Black	$118.65

Foot Kit
Finish: Black Powder Coat

HLRF	$26.05

J-Bolt Kit

HLJB	$4.00

Mounting Kit to Relay Rack

HLMPK19	3"	$26.20
HLMPK19D	6"	$33.25

Protective End Caps

HLECPK2	$8.90

Swivel Splice Kit

HLSSK	$49.80

T-Junction Splice Kit

HLTK	$7.25

Call for Volume Discounts

High Density 144 Port 1U Enclosures

- 144 Max LC Port Capacity
- 1 Rack Unit
- Dimensions in Inches (mm):
  H:1.75" (44) x W: 19" (483) x D:17" (432)

FCRHD1UBK loaded with OCLCHD50G3

FCRHD1UBK	High Density 144 Port 1U Enclosures (Black)	$652.00
FCRHD1UGY	High Density 144 Port 1U Enclosures (Gray)	$652.00

Enhanced Rack Mounted Enclosures

FCR3U12SP loaded with various FSP Series panels Can be used with MPO Cassettes

Rack Units	Height x Width x Depth	Capacity			Part #	
		MPO Cassettes	Splice Tray	Max LC Port		
1	1.75" X 17" X 17"	3	2	72	FCR1U3SP	$255.00
2	3.5" X 17" X 17"	6	6	144	FCR2U6SP	$261.50
3	5.25" X 17" X 17"	12	12	288	FCR3U12SP	$341.35
4	7.00" X 17" X 17"	15	16	360	FCR4U15SP	$384.00

MTP to MTP Cords, 12 Fiber, 50µm, 10G

On spool with pulling grip attached to one end.

FPCMTP50G10	MTP to MTP Cords: 10'	$374.65
FPCMTP50G25	MTP to MTP Cords: 25'	$582.65
FPCMTP50G50	MTP to MTP Cords: 50'	$930.00
FPCMTP50G100	MTP to MTP Cords: 100'	$1560.00

OptiChannel™ Fiber Adapter Panels

SC Duplex, Beige, 3 Adapters	FSPSCDBE3	$41.85
SC Duplex, Beige, 6 Adapters	FSPSCDBE6	$78.95
SC Simplex, Blue, 6 Adapters	FSPSC6	$33.35
SC Simplex, Blue, 8 Adapters	SPSC8	$42.45
SC Duplex, Blue, 3 Adapters	FSPSCD3	$31.40
SC Duplex, Blue, 6 Adapters	FSPSCD6	$59.20
ST-style, Blue, 6 Adapters	FSPST6	$26.40
ST-style, Blue, 8 Adapters	FSPST8	$44.75
SC to ST-style, Blue, 3 Adapters	FSPSCST3	$41.40
SC to ST-style, Blue, 6 Adapters	FSPSCST6	$78.20
MT-RJ, 6 Adapters	FSPMTRJ6	$64.55
MT-RJ, 8 Adapters	FSPMTRJ8	$80.95
LC Quad, 3 Adapters	FSPLCQ3	$68.05
LC Quad, 6 Adapters	FSPLCQ6	$131.45
APC, SC Simplex, Green, 6 Adapters	FSPSCA6	$64.90
APC, SC Simplex, Green, 8 Adapters	FSPSCA8	$85.40
LC 12-port (6 LC duplex)	FSPLCDS6xx	$92.45
LC 24-port (12 LC duplex)	FSPLCDS12xx	$138.00

xx = Color: AQ (Aqua), BE (Beige), BK (Black), B (Blue), GN (Green), OR (Orange), R (Red), and Y (Yellow).

Ultra Compact LC to MTP Cassettes

- MM total insertion loss: <1.5dB max
- SM total insertion loss: <1.1dB max
- SM return loss: >50dB
- Material: 5052 aluminum
- Polarity: TIA-568-C.3, Type "A"

Port Count	Height x Width x Depth	Fiber Type	Part #	
12	0.5" x 3.5" x 5.2"	50µm, OM3	OCLCHD50G3	$315.00
12	0.5" x 3.5" x 5.2"	50µm, OM4	OCLCHD50G4	$325.00
12	0.5" x 3.5" x 5.2"	SM, 0S2	OCLCHDSM	$355.00

Standard SC/LC-MPO Cassettes

Note: Standard LC-MPO cassettes are not compatible with the HD enclosures. 24-Port versions supplied with two MPO 12-fiber receptacles.

Description	Port Count	Fiber Type	Part #	
SC duplex	12	50µm, OM3	OCSC50G	$410.00
LC duplex	12	50µm, OM3	OCLC50G	$435.00
LC duplex	24	50µm, OM3	OCLCD50G	$585.00
LC quad	24	50µm, OM3	OCLCQ50G	$585.00
SC duplex	12	50µm, OM4	OCSC50G4	$393.60
LC duplex	12	50µm, OM4	OCLC50G4	$565.00
LC duplex	24	50µm, OM4	OCLCD50G4	$565.00
LC quad	24	50µm, OM4	OCLCQ50G4	$565.00

MPO to MPO 12-Fiber Round Cords, OFNP Rated Plenum, 10G

x = Length in meters or feet
  (no zeros preceding value)
f = Feet (leave blank for meters)
n = No pulling eye

FPCPMTP50G3Mxfn	MPO to MPO 12-Fiber Round Cords, 50µm, OM3	Call for pricing
FPCPMTP50G4Mxfn	MPO to MPO 12-Fiber Round Cords, 50µm, OM4	Call for pricing
FPCPMTPSxfn	MPO to MPO 12-Fiber Round Cords, SM, 0S2	Call for pricing

Keyed LC Multimode OM3 Patch Cords

Keyed LC   **Standard LC**   **Standard SC**

		yy =				
		01	02	03	05	10
Keyed LC to Keyed LC 50µm	KLCDFP50GMyyxx	$81.35	$85.00	$89.00	$96.55	$115.00
Keyed LC to standard LC 50µm	KLCDFPLC50GMyyxx	$77.05	$80.10	$84.60	$92.20	$110.00
Keyed LC to standard SC 50µm	KLCDFPSC50GMyyxx	$77.05	$80.10	$84.60	$92.20	$110.00

yy = Standard Lengths: 01, 02, 03, 05, and 10 meters.
xx = Standard Housing Colors: RD(Red), YL (Yellow), GN (Green), and BL (Blue).
Special Colors: AQ (Aqua), BR (Brown), OR (Orange), RO (Rose), SL (Slate), and VI (Violet).

Hubbell OptiChannel Keyed LC Adapter Panels

Adapter panel, keyed LC duplex	12 Port	FSPKLCDS6xx	$155.00
	24 Port	FSPKLCDS12xx	$250.00

Note: Individually bagged with dust caps installed.
xx = Standard Housing Colors: RD (Red), YL (Yellow), GN (Green), and BL (Blue).
Special Colors: AQ (Aqua), BR (Brown), OR (Orange), RO (Rose), SL (Slate), and VI (Violet).

Call for Volume Discounts

40 Gb/s and 100 Gb/s MTP Fiber Cords

Available Options
- Connectors: MTP female, 12-fiber or 24-fiber
- Fiber types: 50/OM3, 50/OM4
- 40 Gb/s fiber strand count: 12, 24 & 48 fibers
- 100 Gb/s fiber strand count: 24 & 48 fibers
- Cable: plenum, riser, or LSZH
- Polarity: 40GBASE-SR4 or 100GBASESR10
- Lengths: 1 to 150 meters (3 to 500 ft)
- Application limits:
- OM3 40G/100G limit: 100 m (328 ft)
- OM4 40G/100G limit: 150 m (492 ft)

Call for Custom Quotes

Distribution Trunks and Pigtails

Available Options
- Connectors: LC, MSFP, keyed LC, SC, SC/APC, ST, FC, FC/APC
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber count: 6, 12, 24, 48, 72, & 96 fibers
- Cable: plenum, riser, or LSZH (armored/non-armored)
- Fan-out options: 900 micron buffer

Call for Custom Quotes

Transition Assemblies

Available Options
- Connectors: MTP female to LC or SC duplex
- Fiber types: 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 12, 24 & 48 fibers
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Polarity: TIA-568C.3, Type A,B or C
- Fan-out: 2.0mm furcation tubing

Call for Custom Quotes

Distribution Fan-Out Trunks and Pigtails

Available Options
- Connectors: LC, MSFP, keyed LC, SC, SC/APC, ST, FC, FC/APC
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 6, 12, 24, 48, 72, 96
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Fan-out: 2.0mm furcation tubing

Call for Custom Quotes

Mesh Bundle Trunks (2.0mm Duplex Zip Cord)

Available Options
- Connectors: LC, MSFP, keyed LC, SC, SC/APC, ST, FC, FC/APC
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 6, 12, 24, 48, 72, 96
- Cable: plenum, riser, or LSZH
- Outer sheath: polyester mesh

Call for Custom Quotes

NEXTSPEED® Ascent Category 6A, Component Compliant Jacks

Colors Available

AL	BK	B	EI	GL
GY	GN	LA	OW	OR
P	R	BN	W	Y

	Single		25-Pack	
Category 6A, Component Compliant Jacks	HJ6AXX	$11.25	HJ6AXX25	$245.00

NEXTSPEED® Ascent Category 6A, Component Compliant Patch Panels

*Add an "S" at the end of the part number to be offered in silver. Standard color is black.

Note: HP6Axx angled panel protrudes 4.46" from the plane of the rack. Hubbell recommends one (1) extra inch of space between the door and panel angle.

Ports	Height	Width	Units	Style	Part #	
24	1.75"	19"	1	Straight	HP6A24U*	$325.00
48	3.50"	19"	2	Straight	HP6A48U*	$580.00
96	7.00"	19"	4	Straight	HP6A96U*	$945.00
24	1.75"	19"	1	Angle	HP6A24AU	$325.00
48	3.50"	19"	2	Angle	HP6A48AU	$585.00

NEXTSPEED® Ascent Category 6A, Component Compliant Patch Cords

Colors Available

P	BK	B	PK	OR
R	BN	W	Y	GN

Category 6A Patch Cords, 1'	HC6AXX01	$8.45
Category 6A Patch Cords, 3'	HC6AXX03	$12.60
Category 6A Patch Cords, 5'	HC6AXX05	$15.00
Category 6A Patch Cords, 7'	HC6AXX07	$17.35
Category 6A Patch Cords, 10'	HC6AXX10	$21.05
Category 6A Patch Cords, 15'	HC6AXX15	$27.15
Category 6A Patch Cords, 20'	HC6AXX20	$33.20

NEXTSPEED® Ascent Category 6A, Component Compliant Cable

Colors Available

B	GY	W	Y

Note: All category rated cable is packaged in 1000 foot quantities.

	Plenum Spool		Riser Spool	
Category 6A Cable	C6ASPXX	Call	C6ASRXX	Call

NEXTSPEED® Ascent Category 6A solution is a tuned system of structured cabling components designed and balanced to work together to support bandwidth beyond 625MHz. NEXTSPEED® Ascent provides the highest level of reliability with a 0 bit error rate of 10-13.

Call for Volume Discounts

1.800.543.4333 • Fax 203.325.2198 • www.datacomtools.com

NEXTSPEED® Shielded Category 6A Jacks

Unit of Measure	A-Wired		B-Wired	
2 per bag	SJ6A2A	$22.60	SJ6A2B	$22.60
24 per bag	SJ6A24A	$235.00	SJ6A24B	$235.00

NEXTSPEED® Shielded Patch Panels, Unloaded

Note: Jacks are sold separately.

Ports	Height	Width	Units	Type	Color	Part #	
24	1.75"	19"	1	Flat	Silver	**PSJ24S**	$79.35
24	1.75"	19"	1	Flat	Black	**PSJ24BK**	$79.35
48	3.50"	19"	2	Flat	Black	**PSJ48BK**	$78.00
24	1.75"	19"	1	Angled	Black	**PSJ24AU**	$79.35
48	3.50"	19"	2	Angled	Black	**PSJ48AU**	$85.85

NEXTSPEED® Shielded Category 6A, Patch Cords

yy = Standard Length: 03 (3'), 05 (5'), 07 (7'), 10 (10'), 15 (15'), 20 (20'), 25 (25').
xx = Color: B (Blue), BK (Black), GY (Gray), and Y (Yellow).
Made-to-order lengths are available from 30ft to 75ft in 5ft increments.

Colors Available
B	BK	GY	Y

PC6AXXYY	NEXTSPEED® Shielded Cat 6A, Patch Cords	**Call for pricing**

NEXTSPEED® Ascent 10GbE, FTP Cable, 4-Pair

Colors Available
B	GY	W	Y

Note: All category rated cable is packaged in 1000 foot quantities.

	Plenum Spool		Riser Spool	
10Gb, FTP Cable	C6AFTPSPXX	Call	C6AFTPSRXX	Call

NEXTSPEED® Ascent Shielded Category 6A, Trunk Cable Assemblies

BIDnet Pre-Terminated Copper improve air flow in the datacenter, decrease installation time and will supply superior performance.

- Simplifies installation time by 75%
- Reduces initial installation cost by 30%
- 100% factory tested and assembled
- Mission Critical 25-Year Warranty

Call for Custom Quotes

NEXTSPEED® Category 6 Jacks

- Industry's first tested category 6 component compliant jack.
- Exclusive 1-Punch Termination Tool reduces time by 75%.
- 2,000+ mating cycles with FCC compliant 8-position plug.

Colors Available
AL	BK	B	EI	GL	GY	GN	LA	OW	OR	P	R	TI	W	Y

HXJ6XX	NEXTSPEED® Category 6 Jack, Universal	$6.75

NEXTSPEED® Category 6, Universal Patch Panels

Consolidation points are an interconnection between the telecom room to the telecom outlet. Using consolidation points, new wiring for a work station in an open office environment need extend only as far as the consolidation point, not all the way back to the telecommunication room. This provides for increased flexibility and economy when work stations require frequent re-configuration.

P612U	MUTOA, Category 6, Universal 89D, Black, 12-port	$99.75
P6E24U	Patch Panel, Category 6, Universal, Black, 24-port	$155.00
P6E48U	Patch Panel, Category 6, Universal, Black, 48-port	$300.00
P6E96U	Patch Panel, Category 6, Universal, Black, 96-port	$580.00
P624AU	Patch Panel, Category 6, Angled, Black, 24-port	$178.00
P648AU	Patch Panel, Category 6, Angled, Black, 48-port	$355.00

NEXTSPEED® Category 6, Patch Cords

yy = Standard Length: 03 (3'), 05 (5'), 07 (7'), 10 (10'), 15 (15'), 20 (20'), 25 (25').
xx = Color: B (Blue), BK (Black), GY (Gray), Y (Yellow), GN (Green), OR (Orange), P (Purple), R (Red), and W (White).

Colors Available
BK	B	GY	GN	OR
P	R	W	Y	

Made-to-order lengths are available from 30ft to 75ft in 5ft increments.

HC6XXYY	NEXTSPEED® Category 6, Patch Cords	**Call for pricing**

NEXTSPEED® Category 6, UTP Cable, 4-Pair

Colors Available
B	GY	W	Y

Note: All category rated cable is packaged in 1000 foot quantities.

	Plenum Spool		Riser Spool	
Cat6, UTP Cable	C6RPXX	Call	C6RRXX	Call

Call for Volume Discounts

NEXTSPEED® Ascent 40 Gbs QSFP+ passive copper cable assemblies are tuned cabling components designed and balanced to exceed industry standard performance specifications for InfiniBand QDR, 40G Ethernet, and SAS Channel applications.

Ascent 40 passive copper assemblies are compliant with the InfiniBand Architecture, SFF-8436 specifications and provide connectivity between devices using QSFP ports.

Ascent 40 passive copper assemblies are a cost-effective short link connectivity solution for the data center and are available in a wide range of wire gauges and lengths from 24-30AWG in lengths from 0.5m for 30AWG to 10m for 24AWG.

Don't jeopardize your network: NEXTSPEED® Ascent 40 QSFP+ copper cable assemblies are the product for the digital world. They significantly reduce power consumption and EMI emission, providing a migration path for tomorrows emerging network applications.

- Patent Pending PairShield™ Minimizes Crosstalk
- Ergonomic Easy Plug and Play Connection
- 40 GIG-IB-QDR Certified
- Reduce Power Consumption and EMI Emission

Part #	Description	Cable Type	(meters) Length	(mm) Cable Dia.	(mm) Min Bend Radius	Wire Gauge	InfiniBand DDR	QDR	40 Gb Ethernet	6G SAS	
HC3040G05M	NextSpeed, Ascent, 40 Gb/s, 30AWG, BK, 05M	Passive	0.5	6.20	30	30	Yes	Yes	Yes	Yes	$74.95
HC3040G1M	NextSpeed, Ascent, 40 Gb/s, 30AWG, BK, 1M	Passive	1.0	6.20	30	30	Yes	Yes	Yes	Yes	$81.60
HC3040G2M	NextSpeed, Ascent, 40 Gb/s, 30AWG, BK, 2M	Passive	2.0	6.20	30	30	Yes	Yes	Yes	Yes	$95.05
HC3040G3M	NextSpeed, Ascent, 40 Gb/s, 30AWG, BK, 3M	Passive	3.0	6.20	30	30	Yes	Yes	Yes	Yes	$108.45
HC3040G4M	NextSpeed, Ascent, 40 Gb/s, 30AWG, BK, 4M	Passive	4.0	6.20	30	30	Yes	Yes	Yes	Yes	$121.95
HC3010G5M	NextSpeed, Ascent, DDR, 10 Gb/s, 30AWG, BK, 5M	Passive	5.0	6.20	30	30	Yes	-	-	Yes	$135.00
HC2840G05M	NextSpeed, Ascent, 40 Gb/s, 28AWG, BK, 05M	Passive	0.5	7.80	40	28	Yes	Yes	Yes	Yes	$74.10
HC2840G1M	NextSpeed, Ascent, 40 Gb/s, 28AWG, BK, 1M	Passive	1.0	7.80	40	28	Yes	Yes	Yes	Yes	$80.65
HC2840G2M	NextSpeed, Ascent, 40 Gb/s, 28AWG, BK, 2M	Passive	2.0	7.80	40	28	Yes	Yes	Yes	Yes	$93.00
HC2840G3M	NextSpeed, Ascent, 40 Gb/s, 28AWG, BK, 3M	Passive	3.0	7.80	40	28	Yes	Yes	Yes	Yes	$105.45
HC2840G4M	NextSpeed, Ascent, 40 Gb/s, 28AWG, BK, 4M	Passive	4.0	7.80	40	28	Yes	Yes	Yes	Yes	$117.95
HC2840G5M	NextSpeed, Ascent, 40 Gb/s, 28AWG, BK, 5M	Passive	5.0	7.80	40	28	Yes	Yes	Yes	Yes	$130.35
HC2810G6M	NextSpeed, Ascent, DDR, 10 Gb/s, 28AWG, BK, 6M	Passive	6.0	7.80	40	28	Yes	-	-	Yes	$145.35
HC2640G2M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 2M	Passive	2.0	9.80	50	26	Yes	Yes	Yes	Yes	$97.40
HC2640G3M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 3M	Passive	3.0	9.80	50	26	Yes	Yes	Yes	Yes	$112.05
HC2640G4M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 4M	Passive	4.0	9.80	50	26	Yes	Yes	Yes	Yes	$126.75
HC2640G5M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 5M	Passive	5.0	9.80	50	26	Yes	Yes	Yes	Yes	$144.00
HC2640G6M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 6M	Passive	6.0	9.80	50	26	Yes	Yes	Yes	Yes	$157.35
HC2640G7M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 7M	Passive	7.0	9.80	50	26	Yes	-	-	Yes	$172.00
HC2640G8M	NextSpeed, Ascent, 40 Gb/s, 26AWG, BK, 8M	Passive	8.0	11.00	60	26	Yes	Yes	Yes	Yes	$185.00
HC2440G10M	NextSpeed, Ascent, 40 Gb/s, 24AWG, BK, 10M	Passive	10.0	11.00	60	24	Yes	-	-	Yes	$101.35

Features:
- Options up to 8m for 40Gb/s applications.
- Controlled termination for lowest multi-aggressor crosstalk to assure error free interconnects.
- Low insertion loss.
- BER better than 10-15.
- Serial numbers printed on each end.

Applications
- Data center
- InfiniBand 4X SDR, DDR, QDR
- Ethernet 10G,40G
- Rapid IO
- Myrinet 40G
- Top of Rack (Sever-to-Server)
- HPC Server Clusters
- Storage Area Networks (SANs)
- Enterprise Data Center Networks

Specifications:

Cable Construction:
- TwinAx: Fully shielded differential pairs.
- UL style CL2 or CM.
- Impedance: 100. +/- 10 OHMS.
- DC blocking caps (0.1uF) on Rx only.
- EEPROM programmed per SFF8436.
- IC module select buffer included.

Plug Material:
- Pads – Gold plated over nickel over copper base material.
- Shell & Latch Mechanism – Zinc die cast; nickel over copper plating.

Mechanical:
- Latch retention force: 90n (20.2lbs) min.
- Durability - 250 Cycles.

Environmental:
- Operating Temperature Range:
  – 20°C to 75°C.

BIDnet™ (Building Infrastructure Design for Networking) Pre-terminated Assemblies are the ideal solution for data centers, open office and other applications where accuracy, reliability and performance are required.

BIDnet Pre-terminated Assemblies provide simplicity for permanent links between switches, servers and patch panels, MUTOAs and zone distribution areas, enabling easy MACs (moves, adds and changes) to the infrastructure.

Featuring 100% factory tested assemblies that reduce installation time and labor, compared to traditional field terminated permanent links.

Go Green with BIDnet Pre-terminated Assemblies - BIDnet assemblies are provided to the exact specification length reducing jobsite waste.

Applications
- Server to Server
- Switch to Switch
- Patch Panel to Patch Panel
- Intra-Cabinets
- MUTOAs
- Zone Distribution areas
- Open Office
- Modular Furniture

Call for Quote

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53

Introducing a breakthrough in zero-u pathway support and routing

In mission critical data center networks, physical infrastructure must provide the right avenue for upgrades and system maintenance as well as flexibility for future growth. Leviton's Floor-Mounted Pathway Support is the ideal solution to meet these requirements. This unique frame provides a full support for pathway lighting, power, cabling, and other infrastructure.

The Floor-Mounted Pathway Support solves three main issues in data centers (DC):

1. Rapid Swap-Out and Staging
Many DCs accomplish equipment changes or additions via an entire cabinet swap-out. With the Floor-Mounted Pathway Support, racks and cabinets are not attached to the overhead infrastructure, allowing power and cabling to be quickly disconnected from the cabinet without removing hardware. Connections within the cabinet can be easily disconnected, making room for new equipment to be rolled in & connected.

2. Overhead Space and Access
In many facilities, access to the ceiling in the DC may be limited due to blockage by utility ducting and pipe or because the height requires substantial labor. Also, the roof structure may not allow the added weight from cables and ladder trays. Pathway Supports can carry the load and avoid obstructions while freeing up rack space by adding patching above cabinets or racks.

3. Time and Labor savings
Installing overhead-suspended ladder trays on tall ceilings is cumbersome and time consuming. When ladder trays and wiring baskets are hung from the ceiling it is necessary to 'thread' the cable and trunks through all of the ceiling supports, adding to the labor at the time of initial installation and whenever moves, adds, or changes (MACs) are made. Using Floor-Mounted Pathway Supports can reduce installation time by 40% in a typical installation.

A

Mounting Hole Detail
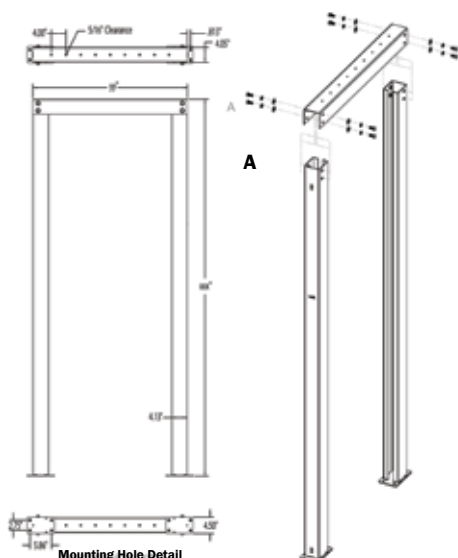
* Ordering instructions for frame height and width:
1. Determine the upright height (XXX inches)
2. Determine cross member width (YY inches)

Max. and Min. Frame Dimensions		
	Max	Min
Height (xxx)	112"	82"
Width (yy)	48"	24"

B   C   D   E   F

Floor-Mounted Pathway Support & Accessories			
	Description	Part No.	
[A]	Floor-Mounted Pathway Support	575-73xxx-yy*	Call for pricing
[B]	6/6" Frame Extension Mounting C-Bracket	530-60606-001	Call for pricing
	8/8" Frame Extension Mounting C-Bracket	530-60808-001	Call for pricing
	12/8" Frame Extension Mounting C-Bracket	530-61208-001	Call for pricing
	20/8" Frame Extension Mounting C-Bracket	530-62008-001	Call for pricing
	12/18" Frame Extension Mounting C-Bracket	530-62018-001	Call for pricing
	24/12" Frame Extension Mounting C-Bracket	530-62412-001	Call for pricing
	24/20" Frame Extension Mounting C-Bracket	530-62420-001	Call for pricing
	30/24" Frame Extension Mounting C-Bracket	530-63024-001	Call for pricing
[C]	Sub-floor Mounting Kit	530-50000-006	Call for pricing
[D]	Patch Panel Bracket	530-50000-007	Call for pricing
[E]	Channel Attachment Bracket Kit	575-73000-001	Call for pricing
[F]	Frame Drill Template	530-50000-008	Call for pricing

Features
- Flexibility – design a custom system for your needs
- Works w/any cabinet, cable tray, ladder or raceway, including Leviton Fiber Raceway System
- Scalable for growth: add more at any time
- Mounting pads do not interfere w/cabinet wheels
- System accessories require no rack unit space
- Grounding and bonding ready

Benefits
- Better for high ceiling data centers
- Enables offline cabinet build out
- Easy to add/remove pre-configured trunks/cabling
- Reduced installation costs & less on-site problems
- Allows expansion w/o disruption of operations
- Allows efficient management of infrastructure
- Minimizes installation time and risk
- Expedites time to "live operation"

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Design Considerations
Frame loading: Max. mounted equipment weight shall not exceed 400 lbs. when frames are installed 8' apart, bearing upon 2, 102"H x 42"W frames joined by 2 sections of 1 5/8" x 1 5/8" 12-gauge steel channel,

- Recommended max. span between frames is 8'
- Recommended that Unistrut® Metal Framing System be mounted between pathway supports
- Follow TIA recommendations for grounding

Physical Specifications
Dimensions: See following page for details
Height: Max 112", Min 82"
Width: Max 48", Min 24"
Materials: Steel – 24-AWG powder-coated black
Packaging: Boxed and palletized - Flat

Free shipping not included

Accessories
- Sub Floor Mounting kit – plate for bottom of a raised floor tile that accepts standard threaded rod
- C-Brackets create a two-tier mounting surface for ladder trays or wire baskets. Available in a variety of sizes: 6/6", 8/8", 12/8", 20/8", 20/18", 24/20", 20/24"
- Left/Right brackets to mount standard steel channel framing to span the pathway support
- Patch Panel Bracket –A bracket that is mounted on the steel channel above the cabinet and accepts standard 19-in patch panels or other fiber enclosures providing up to 4U of additional patching capability
- Frame drill template — custom to your support system

Key Features
- Stylish and innovative design for today's most advanced networks and settings
- Removable sliding tray releases from front or rear of enclosure to facilitate field terminations and splicing
- Sliding tray glides forward and backward providing accessibility to front and rear of bulkhead after installation
- 17" depth for high density fi ber termination and/or splicing
- Removable, hinged doors & slide away covers allow easy access during install & visibility of interior after install
- Accepts injection molded splice trays and 4'' x 7'' metal splice trays
- Removable rubber grommets route pre-terminated fi ber trunks, protect cables, and minimize dust build up
- Patch cord bend radius guides minimize macro bending of routed fibers
- Stackable, adjustable, and multi-position configurable fi ber rings simplify cable management
- Constructed of durable polycarbonate plastic & 16-gauge steel, powder-coated black
- Multiple mounting bracket positions for 19" or 23" rack & cabinet (23" 1RU mounting bracket sold separately)
- Adjustable mounting bracket extends enclosure 4" from rail
- Accessory kit consists of cable ties, mounting ear screws, port ID labels, and spiral wraps (for cable protection)
- Optional cable strain relief mounting kits (for installation on side of enclosure or on rack post)

Opt-x Ultra 4RU (5R4UH-S03)

Opt-X Ultra 2RU (5R2UH-S06)

Opt-X Ultra 1RU (5R1UH-S03)

	Part #	Fibers Listing	Adapter Plates	Splice Trays	MTP Modules	
Opt-X Ultra 1RU	5R1UH-S03	72	3	3	3	$249.00
Opt-X Ultra 2RU	5R2UH-S06	144	6	6	6	$334.95
Opt-X Ultra 4RU	5R4UH-S12	288	12	12	12	$468.25

Medium Enterprise Applications

Key Features
- Sliding tray (optional in 1RU & 2RU) removes completely from enclosure for ease of field terminations & splicing
- Sliding tray glides (w/stop) forward & backward, providing accessibility to front & rear bulkhead after installation
- 15" depth for high-density fi ber termination and/or splicing
- Stackable & adjustable fi ber rings simplify cable organization
- Front saddles pivot for improved patch cord routing
- Removable front & rear covers for better access to interior of enclosure
- Removable rubber grommet allows for pre-terminated fiber trunk install, protects cable, & dust build-up
- Accepts injection molded splice trays & 4'' x 7'' metal splice trays
- Constructed of 16-gauge steel, powder-coated black
- Capable of storing up to 3 meters of 900 µm tight buffered fiber per adapter
- Adapter plate on 3RU/4RU orients horizontally or vertically for optimal density
- Accessory kit consists of cable ties, ear screws, port ID label, & spiral wrap (cable protection for sliding tray units)
- Optional cable strain relief mounting kits (for installation on side of enclosure or on rack post)

Opt-X 1000i, 1RU (5R1UM-S03)

Opt-X 1000i, 2RU (5R2UM-S06)

Opt-X 1000i, 3RU (5R3UM-F09)

Opt-X 1000i, 4RU (5R4UM-F12)

	Part #	Fibers Listing	Adapter Plates	Splice Trays	MTP Modules	
Opt-X 1000i, 1RU	5R1UM-S03	72	3	3	3	$190.00
Opt-X 1000i, 2RU	5R2UM-S06	144	6	6	6	$239.75
Opt-X 1000i, 3RU	5R3UM-F09	216/288	9/12	12	9/12	$247.35
Opt-X 1000i, 4RU	5R4UM-F12	288/360	12/15	12	12/15	$287.45

Small Enterprise Applications

Key Features
- Flush-mount adapter bulkhead for ease of moves, adds, and changes
- Stackable fi ber rings simplify cable routing and organization
- One-piece removable cover allows for complete accessibility to the back of the enclosure
- Constructed of 16-gauge steel, powder-coated black
- Accepts Opt-X adapter plates and/or Opt-X MTP® modules/cassettes
- Accepts injection molded splice trays and 4'' x 7'' metal splice trays
- Enclosure is capable of storing up to 3 meters of 900 µm tight buffered fi ber per adapter
- Accessory kit consists of cable ties, mounting ear screws, and port ID label
- Optional cable strain relief mounting kits (for installation on side of enclosure or on rack post)
- 1RU and 3RU flush-mount panels accept Opt-X adapter plates and mount to 19'' racks and cabinets
- Optional add-on patch cord cable management tray (sold separately) uses existing rack unit

Opt-X 500i, 1RU (5R1UL-F03)

Opt-X 500i, 2RU (5R2UL-F06)

Opt-X 500i, 3RU (5R3UL-F12)

	Part #	Fiber Listing	Adapter Plates	Splice Trays	MTP Modules	
Opt-X 500i, 1RU	5R1UL-F03	72	3	3	3	$85.00
Opt-X 500i, 2RU	5R2UL-F06	144	6	6	6	$110.00
Opt-X 500i, 3RU	5R3UL-F12	288	12	12	12	$140.00

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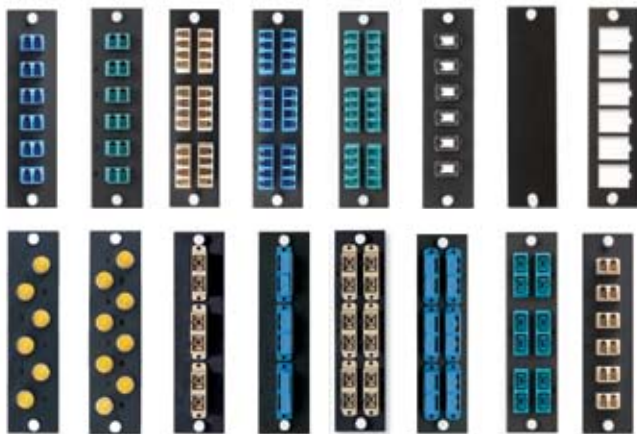
LEVITON

A   B   C

- Self-healing grommet material protects cable and minimizes dust build-up
- Adjustable fiber management rings easily attach to mounting studs
- Ground terminal lug provides grounding option or cable strain relief
- Cutout on side of enclosure allows access to adapter bulkhead with open doors
- Door options: split with single lock on service side (optional lock available to install on customer side), solid with or without single lock on customer side
- Constructed of 16-gauge steel, powder-coated black

| Description | Maximum Capacity | | | | Part # | |
	Fibers (using LC)	Adapter Plates	Splice Trays	MTP Modules		
Small, empty, solid metal door, no lock	48	2	N/A	2	5W110-00N	$73.20
[A] Small, empty, split metal door and one lock/key	48	2	N/A	2	5W120-00N	$90.55
Small, empty, solid metal door and one lock/key	48	2	N/A	2	5W170-00N	$81.25
OPT-X 1000 Medium Wall-Mount Enclosures						
Medium, empty, solid metal door, no lock	96	4	6	4	5W310-00N	$99.85
[B] Medium, empty, split metal door and one lock/key	96	4	6	4	5W320-00N	$118.95
Medium, empty, solid metal door and one lock/key	96	4	6	4	5W370-00N	$113.95
OPT-X 1000 Large Wall-Mount Enclosures						
[C] Large, empty, solid metal door, no lock	288	12	6	12	5W710-00N	$210.00
Large, empty, split metal door and one lock/key	288	12	6	12	5W720-00N	$222.95
Large, empty, solid metal door and one lock/key	288	12	6	12	5W770-00N	$219.65
Accessories						
Lock and Key					5L000-L0K	$11.35

Adapter Plates

Key Features - Opt-X
- Unique design works w/ Leviton's exclusive Opt-X series, including the advanced Opt-X Ultra, Opt-X 1000i & Opt-X 500i enclosures
- Using Opt-X style plates or modules allows use of up to fifteen (15) plates or modules (even quad LCs) in a 4RU enclosure

Leviton Fiber Enclosures support two styles of Adapter Plates or MTP® Modules*; Opt-X & LightSpace (LGX® footprint). Select the appropriate style for your enclosure.

SC	3-pk duplex SC MM, (6-fiber) beige, phos bronze sleeve	5F100-3BC	$30.00
	3-pk duplex SC LOMM (6-fiber) aqua, zirc ceramic sleeve	5F100-3AC	$34.25
	3-pk duplex SC SM, (6-fiber) blue, zirc ceramic sleeve	5F100-3ZC	$34.25
	3-pk duplex SC SM, (6-fiber) green, zirc ceramic sleeve	5F100-3CA	$34.25
	6-pk duplex SC LOMM, (12-fiber) aqua, zirc ceramic sleeve	5F100-6AC	$56.55
	6-pk duplex SC SM (12-fiber) blue, zirc ceramic sleeve	5F100-6ZC	$56.55
	6-pk duplex SC SM (12-fiber) green, zirc ceramic sleeve	5F100-6CA	$56.55
LC	6-pk duplex LC MM, (12-fiber) beige, phos bronze sleeve	5F100-12P	$55.60
	6-pk duplex LC LOMM, (12-fiber) aqua, zirc ceramic sleeve	5F100-12A	$55.75
	6-pk duplex LC SM, (12-fiber) blue, zirc ceramic sleeve	5F100-12Z	$65.00
	6-pk quad LC MM, (24-fiber) beige, phos bronze sleeve	5F100-24P	$100.95
	6-pk quad LC LOMM, (24-fiber) aqua, zirc ceramic sleeve	5F100-24A	$100.95
	6-pk quad LC SM, (24-fiber) blue, zirc ceramic sleeve	5F100-24Z	$100.95
ST	6-pk ST MM, (6-fiber) phos bronze sleeve	5F100-1ST	$26.65
	6-pk ST SM, (6-fiber) zirc ceramic sleeve	5F100-6ZT	$38.55
	8-pk ST MM, (8-fiber) phos bronze sleeve	5F100-8ST	$38.55
	8-pk ST SM, (8-fiber) zirc ceramic sleeve	5F100-8ZT	$32.60
MTP	6-pk MTP (72-fiber), Method A and C (Key up/Key down)	5F100-6MP	$91.65
	6-pk MTP (72-fiber), Method B and C (Key up/Key up)	5F100-6MB	$91.65
Blank	Blank, metal	5F100-BLK	$6.65
	6-pk Quickport®, empty	5F100-6QP	$9.95

Splice Trays

Key Features - Injection Molded Plastic Splice Trays
- 12-fiber mini and 24-fiber high density splice trays
- Accommodate 250 and/or 900 µm single-mode and multimode fibers
- Protect and manage heat shrink style spliced fibers
- Ratchet action clamps with foam rubber padding prevents damage to fibers
- Multiple tie down holes to secure incoming fiber
- Installable in Leviton Opt-X Series Fiber Enclosures
- 12-fiber splice tray installable in Leviton Network Interface Devices (NIDs)

12-Fiber Mini, 4" x 7" x 0.35"	T47HS-P06	$22.35
12-Fiber Mini, w/standoff, 4" x 7" x 0.57"	5T000-00T	$28.05
12-Fiber Mini, 3.74" x 5.59" x 0.56" (14 Heat shrink splice sleeves included)	T5PLS-12F	$25.95
24-Fiber High Density, 4.5" x 7.63" x 0.50" (26 Heat shrink splice sleeves included)	T5PLS-24F	$43.40

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1RU and 4RU High Density Angled Panels
- Holds up to 48 fiber channels or 48 copper ports per rack unit
- Accepts up to 8 copper cassettes per RU
- Accepts up to 8 single height or 4 double height fiber cassettes per RU
- Mounts on standard 19" relay racks or cabinets

e2XHD 1RU Panel Capacity with 24-fiber MTP Cabling		
Application	Max # of fibers	Max # of channels
10GbE	96	48
40GbE	192	24
100GbE	768	32
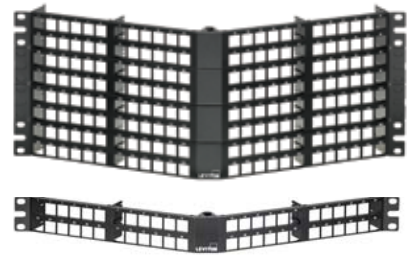
The e2XHD Patching System provides simple termination & improved cable routing for both fiber & copper applications. The system includes 1RU & 4RU angled panels, copper & fiber snap-in cassettes, & accessories for additional cable protection & management. The e2XHD cassettes quickly snap in & pull out of the high density angled panel, making installation, moves, adds, & changes easier than ever. Copper cassettes are available either on pre-terminated trunks or with field-terminated connectors, & fiber cassettes are pre-terminated. Panel covers & blank cassettes offer extra protection from dust & damage.

- Panels allow mix-and-match of Leviton fiber and copper snap-in cassettes
- Adjustable MTP® adapter swivels, allowing for easy routing of incoming MTP cables
- Copper cassettes are available either on pre-terminated trunks or kitted with field-terminated eXtreme CAT 6A or CAT 6 connectors
- Copper connectors easily snap into cassette after termination
- Accessories include a rear cable manager that snaps directly into the panel, blank cassette inserts, & a top cover for angled panel, minimizing dust/debris

e2XHD Copper Cassette Kit

- Used exclusively with e2XHD High Density Angled Panels
- Supplied as a kit with cassette and six CAT 6A or CAT 6 QuickPort Connectors
- Connectors snap into cassette after termination
- AXT barrier reduces alien crosstalk between ports
- Cassettes are also available pre-terminated on Leviton trunk cables

e2XHD Fiber Cassettes

MTP-LC 24-Fiber Core Cassette

MTP-LC 12-Fiber Core Cassette

1x24-Fiber to 3X8-Fiber MTP-MTP Core Cassette

2X12-Fiber to 3X8-Fiber MTP-MTP Edge Cassette

MTP-LC 24-Fiber Edge Cassette, Rear

MTP-MTP Pass-Through Core Cassette

- Used exclusively with e2XHD High Density Angled Panels
- Allows for simple migration path to 40GbE or 100GbE networks with MTP® cassettes
- Leviton-designed MTP adapter swivel allows for easy cable routing and proper bending radius
- TIA Method B polarity installations require one core cassette for each edge cassette; White fiber cassettes designate edge, and black designate core

e2XHD Patching System		
Description	Part No.	
e2XHD 1RU High Density Angled Panel	E2X1A-D48	$131.89
e2XHD 4RU High Density Angled Panel	E2X4A-192	$528.35
e2XHD 6-port CAT 6A Cassette Kit*	E2X6A-xxx	$73.75
e2XHD 6-port CAT 6 Cassette Kit*	E2X61-xxx	$62.15
e2XHD Copper Cassette, terminated to trunk cable	(see configuration below)	Call for pricing
e2XHD 24-fiber MTP®-LC Fiber Cassette	(see configuration below)	Call for pricing
e2XHD 12-fiber MTP-LC Fiber Cassette	(see configuration below)	Call for pricing
e2XHD MTP-MTP Fiber Cassette	(see configuration below)	Call for pricing
e2XHD MTP-MTP Pass-Through Cassette, four key-up/key-down adapters	E2XHD-4MP	Call for pricing
e2XHD MTP-MTP Pass-Through Cassette, four key-up/key-up adapters	E2XHD-4MB	Call for pricing
e2XHD Angled Panel Blank Insert	E2XHD-BLK	$3.80
e2XHD Rear Cable Manager, with cable management rings (four 1/4" rings)	E2XHD-CMB	$56.15
e2XHD Angled Panel Top and Bottom Cover	E2XHD-COV	$28.75
Universal Opt-X® Clamp Kit, single cable grommet (mounts to Rear Cable Manager)	5RCMP-KIT	$31.00
Universal Opt-X Clamp Kit, multiple cable grommet (mounts to Rear Cable Manager)	5RCMP-KT2	$39.80
Universal Clamp Kit, single and multiple cable grommet (for rack mounting)	5RCMR-KIT	$56.45

* = CAT 6A Cassettes include six 6110G QuickPort® Connectors. CAT 6 Cassettes include six 61110 QuickPort Connectors
xxx = connector colors: Black (BLK), Blue (BLU), Green (GRN), Yellow (YEL), Red (RED)

Part Number Configurator - e2XHD MTP Fiber Cassette
Example: FME2XHD-E012CKQDBC; 12-fiber OM3, LC (aqua color) to MTP connector, Method B (core) polarity

FME2XHD - `X` `XXX` `X` `X` `X` `X` `XX`
(1) (2) (3) (4) (5) (6) (7)

1	Fiber Type	E = OM3	F = OM4	A = OS2
2	Fiber Count	012 - 12	024 = 24	
3	Connector Type	C = LC	M = 8F MTP (female)	
4	Rear MTP Type	K = 12F MTP	H = 24F MTP	
5	Adapter Color	Q = MM aqua adapter	L = SM blue adapter	K = Black (MTP only)
6	FootPrint	D = 12 Fiber (single cassette height)	E = 24 fiber (double cassette height)	
7	Polarity	A = Method A	BC = Method b, Core, black	BE = Method B, Edge White

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100G to 10G Channel Configuration

| Electronics | LC Duplex Patch Cord | 24-fiber MTP-LC Module | 24-fiber MTP Trunk Cable* | 24-fiber MTP-LC Module | LC Duplex Patch Cord | Electronics |

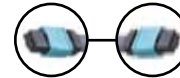**100G to 40G Channel Configuration**

Option A:

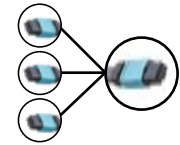| Electronics | 8-Fiber MTP Array Cord | 24-fiber MTP to 3x8-fiber MTP module | 24-fiber MTP Trunk Cable* | 24-fiber MTP to 3x8-fiber MTP module | 8-Fiber MTP Array Cord | Electronics |

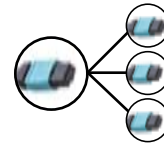**Option B:**

| Electronics | MTP Array Harness | MTP Adapter Plate | 24-fiber MTP Trunk Cable* | MTP Adapter Plate | MTP Array Harness | Electronics |

100G to 10G Channel Configuration

| Electronics | 24-fiber MTP Array Cord | MTP Adapter Plate | 24-fiber MTP Trunk Cable* | MTP Adapter Plate | 24-fiber MTP Array Cord | Electronics |

Legacy 10G to 40G Migration

Option A:

| Electronics | 8-Fiber MTP Array Cord | 2x 12-fiber MTP to 3x8-fiber MTP module | 2x 12-fiber MTP Trunk Cable* | 2x 12-fiber MTP to 3x8-fiber MTP module | 8-Fiber MTP Array Cord | Electronics |
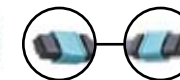
Option B:
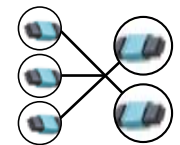
| Electronics | 2 x 12-fiber to 3x8 fiber MTP harness | MTP Adapter Plate | 2x12-fiber MTP Trunk Cable* | MTP Adapter Plate | 2 x 12-fiber to 3x8 fiber MTP harness | Electronics |
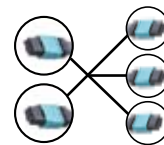
100G to 10G Channel Configuration

| Electronics | 2x 12-fiber to 1x 24-fiber MTP Harness | MTP Adapter Plate | 2x 12-fiber MTP Trunk Cable* | MTP Adapter Plate | 2x 12-fiber to 1x 24-fiber MTP Harness | Electronics |

* = 24-fiber MTP Trunk Cables available in 24-, 48-, 72-, 96-, and 144-fiber count.

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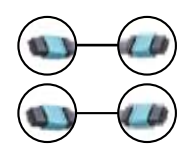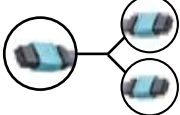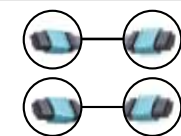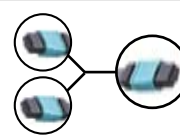## OPT-X Unity 40/100G Pre-Terminated Trunk Cables

- MTP to MTP trunk cables support 40/100G speeds
- Terminations available in 24-, 12-, and 8-fiber configurations
- Migration solution to 40/100G from existing 10G networks with premium 12-fiber MTP trunk configuration
- Up to 70% faster install than field-terminated trunks

- All orders customized for cable type, length, staggering, fiber count, and labeling
- 100% factory tested, w/test results included for each assembly
- All assemblies labeled with serial number and length for trace ability and easy re-order

Call for Custom Quotes

```
      1  2    3     4  5    6     7  8  9  10  11 12    13 14 15 16
FT- |X|X|XXX|X|X|XXX|X|XX|C|XX|C|X|-|X|X|X|X|
```

#							
1	Fiber Type	E = 50/125μm Laser, Optimized (10G, 300m) MM (OM3)			F = 50/125 μm Laser Optimized MM (10G, 550m) OM4		
2	Cable Type (Dry Loose Tube)	A = Riser I/O	B = Plenum I/O (Standard)	C = Plenum Armor I/O	J = LSZH I/O		
3	Fiber Count (Strands)	012	024	036	048	072	096	144
4	1st End Terminations	H = 24 F MTP (male)	J = 24 F MTP (female)	K = Premium 12 F MTP (M)	L = Premium 12 F MTP (F)		
5	Second End Termination	H = 24 F MTP (male)	J = 24 F MTP (female)	K = Premium 12 F MTP (M)	L = Premium 12 F MTP (F)		
6	Cable Length	001-999					
7	Unit of Measure	F = Feet	M = Meters				
8	Breakout Length First End	12-99 (Typ 36")					
9	Breakout Leg Type 1st end termination	C = 3 mm Jacketed Fiber					
10	Breakout Length second end	12-99" (Typ 36")					
11	Breakout Leg Type 2nd end termination	C = 3 mm Jacketed Fiber					
12	Pulling Eye	Y = Yes	N = No				
13	Staggered First End Termination	Y = Yes	N = No				
14	Staggered Second End termination	Y = Yes	N = No				
15	Polarity	A = MTP Method A	B = MTP Method B (Standard)	C = MTP Method C			
16	Labeling	S = Standard	C = Custom				

OPT-X Unity 40/100G MTP Array Harnesses

- Pre-terminated MTP to MTP connectors in laser optimized multimode
- Custom short length cable for cabinet/rack patching
- Custom staggering available
- Used in conjunction w/MTP brackets or adapter plates
- 100% factory tested, w/test results included for assemblies

- All assemblies labeled with serial number and length for traceability and easy re-order
- For use in attaching directly to 40/100G transceivers
- Used in 12- or 24-fiber cabling systems
- Color coded boots

Call for Custom Quotes

```
    1  2   3     4 5 6  7  8 9
FH|X|H|024|X|X|X|XX|X|X|
```

#						
1	Fiber Type	E = 50/125 μm Laser Optimized (10G, 300m) MM		F = 50/125 μm Laser Optimized MM (10G, 550m) OM4		
2	Cable Type	H = Harness				
3	Fiber Count	024				
4	First End Termination	H = 24 F MTP (male)	J = 24F MTP (female)	K = Premium 12 F MTP (M)	L = Premium 12 F MTP (F)	
5	Second End Termination	H = 24 F MTP (male)	J = 24 F MTP (female)	K = Premium 12 F MTP (M)	M = Premium 8 F MTP (F)	
6	Cable Length (Feet)	3	5	6	8	X = Other
7	Breakout Length (Inches)	0-48	XX = Other			
8	Polarity	A =Type A	B = Type B	C = Type C		
9	Location	C = Core	E = Edge			

Pre-Terminated Trunk Cables

- Plug-n-play fiber eliminates the need for field terminations or splices
- Up to 70% faster install than field-terminated trunks
- All orders customized for length, staggering, connector type, breakout style, fiber count, and labeling
- Discrete connectors are heat-cured and use ceramic for rules and sleeves for optimal performance

- Optional pulling eye protects connectors & eases installation
- Available in LC, MU, ST, SC, FC, MT-RJ, and MTP
- Industry-best turnaround time on delivery
- 100% factory tested, w/test results included for each assembly
- All assemblies labeled with serial number and length for trace ability and easy re-order

Call for Custom Quotes

```
      1  2    3     4  5    6     7  8  9  10  11 12   13 14 15 16
FT -|X|X|XXX|X|X|XXX|X|XX|X|XX|X|X|-|X|X|X|X|
```

#										
1	Fiber Type	A = Single-mode (OS1)	B = 50/125μm std MM (OM2)	C = 62.5/125μm MM (OM1)	E = 50/125μm Laser Optimized (10G, 300m MM (OM3)	F = 50/125 μm Laser Optimized MM (10G, 550m) (OM4)				
2	Cable Type	A = Riser I/O Dry Loose Tube	B = Plenum I/O Dry Loose Tube (Standard)	C = Plenum Armor I/O Dry Loose Tube (Standard)	G = Riser Distribution (Standard)	H = Plenum Distribution	J = LSZH I/O Dry Loose Tube	K = LSZH Distribution		
3	Fiber Count (Strands)	004	006	012	024	036	048	072	144	XXX = Other
4	1st End Termination	A = ST	B = SC	C = LC (duplex)	D = FC	E = SC/APC	F = LC/APC	G = FC/APC	Q = MTRJ (female)	R = MTRJ (male)	S = MTP (female)	T = MTP (male)	U = MU	V = LC (uniboot)	X = Other
5	2nd End Termination	A = ST	B = SC	C = LC (duplex clips)	D = FC	E = SC/APC	F = LC/APC	G = FC/APC	Q = MT-RJ (female)	R = MT-RJ (male)	S = MTP (female)	T = MTP (male)	U = MU	V = LC (uniboot)	Z = Pigtail	X = Other
6	Cable Length	001-999								
7	Unit of measure	F = Feet	M = Meters							
8	Breakout Length 1st end	12-99" (Typ 36")								
9	Breakout Leg Types 1st end termination	A = 900μm buffered fiber (for SC, ST, LC, MU, FC, MT-RJ)	B = 2mm jacketed fiber (for LC, MU, MT-RJ)				C = 3mm jacketed fiber (for SC, ST, LC, FC, MT-RJ, MTP)			
10	Breakout Length 2nd end	12-99" (Typ 36")								
11	Breakout Leg Types 2nd end termination	A = 900μm buffered fiber (for SC, ST, LC, MU, FC, MT-RJ)	B = 2mm jacketed fiber (for LC, MU, MT-RJ)				C = 3mm jacketed fiber (for SC, ST, LC, FC, MT-RJ, MTP)			
12	Pulling	Y = Yes	N = No							
13	Staggered 1st End Termination	Y = Yes	N = No							
14	Staggered 2nd End Termination	Y = Yes	N = No							
15	Polarity	A = MTP Method A		B = MTP Method C			C = Method B			
16	Labeling	S = Standard	C = Custom							

Call for Volume Discounts

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- Available in Opt-X & LightSpace (LGX footprint) styles
- Plug-n-play module eliminates need for field termination or splices
- Each module supports up to 24 fibers (LC)
- Bend-insensitive fiber used in OM3/OM4 modules
- All 12-fiber MTP modules use low-loss MTP connectors

- Low insertion loss of 0.5 dB maximum
- 100% factory tested with test results included with each module
- See specific enclosure pages for MTP module capacity
- Available with shutters by special order

Call for Custom Quotes

$$\text{FM -} \underset{}{X} \underset{1}{} \underset{}{XXX} \underset{2}{} \underset{}{X} \underset{3}{} \underset{}{X} \underset{4}{} \underset{}{X} \underset{5}{} \underset{}{X} \underset{6}{} \underset{}{X} \underset{7}{}$$

FM -|X|XXX|X|X|X|X|X| (positions 1-7)

1	Fiber Type	A = Single-mode (OS1)	B = 50/125 µm MM (OM2)	C = 62.5/125 µm MM (OM1)	E = 50/125 µm Laser Optimized (10G, 300m) MM (OM3)	F = 50/125 µm Laser Optimized MM (10G, 550m) (OM4)
2	Fiber Count	012	024			
3	Connector Type	B = SC	C = LC	D = LC (w/ shutters)	U = MU	
4	MTP Fiber Count	A = 12				
5	Footprint	A = Light-Space® (LGX® footprint)		C = Opt-X		
6	Color 0 = Black (standard)	2 = Beige				
7	Polarity	A = MTP Method A	B = MTP Method B	C = MTP Method C (standard)		

OPT-X Unity 40/100G MTP Modules

- Available in Opt-X style footprint
- Allows easy migration from 10G to 40G or 100G
- Each module supports up to 48 fibers using MTP, or 24 fibers using LC
- Modules use either 24 or 12-fiber low-loss connectors

- Bend-insensitive fiber used in OM3/OM4 modules
- MTP-MTP modules are used with MTP array cords
- See specific enclosure pages for MTP module capacity
- Latches are color coded: black = core, white = edge

Opt -x® unity 40/100G MTP Modules, common configurations

Description	Part #	
MTP Core Module, 24-fiber, 24F MTP-LC, Method B, black latches	**FM -*024CDC0BC**	Call for pricing
MTP Edge Module, 24-fiber, 24F MTP-LC, Method B, white latches	**FM -*024CDC0BE**	Call for pricing
MTP-MTP Module, 24-fiber, 24F MTP-3x8F MTP, Method B	**FM -*024NDC0E**	Call for pricing
MTP-MTP Module, 48-fiber, 2x24F MTP-6X8F MTP, Method B	**FM -*048NDC0B**	Call for pricing
MTP-MTP Module, 24-fiber, 2x12F MTP-3x8F MTP, Method B	**FM -*024NCC0B**	Call for pricing

* = Fiber type: OM3 (E), OM4 (F).

Pre-Terminated Copper Trunks

- Custom configured for length, connector type, & more
- Fast and easy installation with reduced labor costs
- 100% factory tested, with test results available
- CAT 6A trunks all use Leviton's component-rated connectors, which provide guaranteed performance in short lengths
- UTP connectors utilize Leviton's patented Retention Force Technology (RFT) for consistent system reliability
- Plugs feature clear SlimLine design with snagless strain relief boot

- Terminated ends offered in staggered or even cut
- Customized breakout length from braided sleeve improves installation flexibility and appearance
- Each assembly receives an individualized serial number, & individual cables are numbered relative to that serial number
- Pre-terminated assemblies are eligible for Leviton's limited lifetime product, system, and performance warranties
- Breakout distances can be even or staggered

Call for Custom Quotes

CT -|XXXX|06|L|XXXX|-|X|E|X|XX|X|-|X|E|X|XX|X|-|X|S03 (positions 1-13)

Example: CT-U6P06L050F-JEC36Y-PEF36Y-SS03; CAT 6 plenum cable assembly, 50-foot length, jack to plug terminations, staggered black jacks w/a 36-inch breakout, staggered plugs w/a 36-inch breakout, bundle of 6 blue cables encased in a plenum braided mesh sleeve w/pulling eye on each end.

1	Cable Type	U6AP = CAT 6A UTP CMP	U6AR = CAT 6A UTP CMR	U6P = CAT 6 UTP CMP	U6R = CAT 6 UTP CMR	U5eP = CAT 5e UTP CMP	U5eR = CAT 5e UTP CMR
2	# of Cables	06					
3	Cable Color	L = Blue					
4	Cable Length	50-295 Feet	3-90 Meter				
5	Term (1st end)	J = Jack	P = Plug				
6	Alignment (1st end)	C = Staggered	E = Even				
7	Breakout Length (1st end)	12-99"					
8	Pulling Eye (1st end)	Y = Yes	N = No				
9	Term (2nd end)	J = Jack	P = Plug	O = Open			
10	Alignment (2nd end)	F = Staggered	E = Even				
11	Breakout Length (2nd end)	12-99"					
12	Labeling	S = Standard	C = Custom				

Performance	Jack to Jack	Jack to Plug	Plug to Plug	Jack to Open	Plug to Open
CAT 5e, UTP	•	•	•	•	•
CAT 6, UTP	•	•	•	•	•
CAT 6A, UTP	•			•	
CAT 6A, AXi UTP	•	•	•	•	•
CAT 5e, Shielded	•			•	
CAT 6, Shielded	•			•	
CAT 6A, Shielded	•	•	•	•	•

Call for Volume Discounts

LEVITON®

Universal panels feature 6-port RJ45 modules on the front, industry standard 110-style punchdown on the rear, & T568A/B universal wiring configurations. QuickPort Patch Panels are pre-loaded with black eXtreme 6+ connectors. 48-Port, angled design provides improved access to 110 punchdown fields, & increased density with enhanced patch cord transition to vertical cable management. For high density applications choose eXtreme 6+ 1RU 48-Port Patch Panels. This patch panel doubles density in applications where space is at a premium. Robust design, die-cast aluminum construction, & the included sturdy cable management bar support increased cable loads.

eXtreme 6+ Universal Panel, 110, w/ Cable mgmt bar

69586-U12	12-Port CAT 6 Patch Panel	$99.80
69586-U24	24-Port CAT 6 Patch Panel	$154.95
69586-U48	48-Port CAT 6 Patch Panel	$299.00
69586-C48	Central Label 48-Port Panel	$365.00
69586-U96	96-Port CAT 6 Patch Panel	$727.00
69587-U48	48 Port Angled Universal Patch Panel, 2RU	$455.00

Angled Patch Panel Accessories

49254-LPM	Angled Horizontal Patch Cord Organizer, 1RU	$60.15
49254-BCM	Angled Horizontal Patch Cord Organizer, 2RU	$85.00
49254-BA2	Front Blank Angled Panel, 2RU	$54.10
49254-BA1	Front Blank Angled Panel, 1RU	$52.55
49006-AMB	Angled Cable Management Bar, rear (4 hook and loop fasteners included)	$44.95
49254-BC1	Transitional Cover	$54.85

QuickPort Panel pre-loaded w/eXtreme 6+ Connectors w/cable mgmt bar

69270-U24	24-Port CAT 6 Patch Panel	$210.00
69270-U48	48-Port CAT 6 Patch Panel	$410.00

QuickPort High Density Panel, 1RU, w/cable mgmt bar

69270-D48	48-Port CAT 6 Patch Panel	$503.00

Patch Blocks and Connectors

69586-U89	eXtreme 6+ Universal Patch Block, 12-Port	$95.00
61110-R*6	eXtreme 6+ Component-rated connector	$6.25
61110-B*6	eXtreme 6+ component-rated connectors QuickPack (25 per pack)	$149.00

Recessed Angled Patch Panels

Leviton's Recessed Angled Patch Panels are ideal for cabinet applications that require a low profile panel. The unique dual-angled design provides improved punchdown accessibility, the option to increase density, and enhanced patch cord transition to vertical cable management. Recessed Angled Panel Accessories keep installation organized and ready for future expansion.

4W254-LPM

4W006-AMB

Recessed Angled Patch Panel Accessories

|		
4W254-LPM	Recessed Angled Patch Cord Organizer, 1RU	$155.00
4W254-BCM	Recessed Angled Patch Cord Organizer, 2RU	$124.85
4W254-BA1	Front Blank Recessed Angled panel, 1RU	$55.55
4W254-BA2	Front Blank Recessed Angled Panel, 2RU	$95.00
4W006-AMB	Recessed Angled Cable Management Bar, Rear	$48.10
49262-HR1	Vertical Transition Rings, 2/Box	$6.95
4W254-BC1	Transitional Cover	$61.35

48-Port Recessed angled patch panel, universal, 110 style, 2RU

6W587-U48	CAT 6 Patch Panel	$470.00
5W597-U48	CAT 5E Patch Panel	$299.00

Recessed Angled Patch Panels - QuickPort® Unloaded

4W256-D72	High-Density 72-Port - Sold Empty, 2RU	$195.20
4W256-H48	QuickPort 48-Port, Sold Empty, 2RU	$120.00
4W256-H24	QuickPort 24-Port, Sold Empty, 1RU	$99.70

QuickPort Multimedia Patch Panels
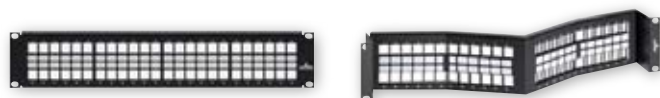
Create a Category 5, 5e, 6, or 6A multimedia panel instantly by matching Leviton connectors with QuickPort patch panels and patch blocks. Install QuickPort voice, data, audio, and video modules to configure the panel to your exact needs.

Patch blocks hold 12 QuickPort modules. Patch panels contain 24, 48, or 72 ports. An 89D mounting bracket is sold separately for patch blocks.

49255-H48	48-Port Panel w/Wire Management Bar, 2RU	$77.95
49255-H24	24-Port Panel w/Wire Management Bar, 1RU	$57.10
49255-Q32	32-Port Panel with Cable Tray, 2RU	$67.25
49255-Q24	24-Port Panel with Cable Tray, 2RU	$60.70
4W256-H48	QuickPort Recessed Angled Panel, 48-Port	$120.00
4W256-H24	QuickPort Recessed Angled Panel, 24-Port	$99.70

Gigamax Universal Patch Panel

Leviton's GigaMax 5e Patch Panels and Patch Blocks are ideal for modular cross connection and available in a multitide of port densities to meet the needs of high-speed data applications.

The patch panel shall meet or exceed the requirements for Category 5e described in TIA/EIA-568-B as well as the Class E requirements described in ISO/IEC 11801-B. The panels shall feature both T568A and T568B wiring configurations, white IDC 110-punchdown modules, mounting standoffs for cable management bars, color-coded front window labeling, and a termination standoff for patch panel earthing/grounding.

GigaMax 5e Universal Patch Panel w/cable Management Bar

5G596-U12	12-Port CAT 5e Patch Panel	$93.05
5G596-U24	24-Port CAT 5e Patch Panel	$132.00
5G596-U48	48-Port CAT 5e Patch Panel	$270.00
5G596-C48	Central Label 48-Port CAT 5e Patch Panel	$270.00
5G596-U96	96-Port CAT 5e Patch Panel	$510.00

Call for Volume Discounts

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Leviton offers a wide variety of copper connectors from CAT 6A (10G) to CAT 3 solutions. CAT 6A eXtreme 10G, our highest performance connector, featuring the Cone of Silence and Retention Force Technology (RFT) resist alien crosstalk (AXT) between neighboring connectors, & offers unparalleled signal integrity. eXtreme 6+ and GigaMax 5e+ component-rated connectors also feature patented RFT for long term performance.

6110G-R*6	eXtreme 10G Channel-Rated Connector	$10.85
61110-R*6	eXtreme 6+ Component-Rated Connector	$6.25
61110-B*6	eXtreme 6+ Component-Rated Connectors QuickPack® (25 per pack)	$149.00
5G110-R*5	GigaMax® 5e+ Component-Rated Connector	$4.50
5G110-B*5	GigaMax® 5e+ Component-Rated Connector QuickPack® (25 per pack)	$104.45
5G108-R*5	GigaMax® 5e Channel-Rated Connector	$3.75
5G108-B*5	GigaMax® 5e Channel-Rated Connectors QuickPack® (25 per pack)	$85.00

Colors Available:

JackRapid termination tool is a unique, patented jack termination tool that saves time and increases accuracy by seating and terminating all wires at once with a simple squeeze of an ergonomic handle. Jack-Rapid gives clean, consistent and accurate cuts every time.

|		
JR-LEV-1	JackRapid (Leviton, 41106, 41108, 5G108)	$81.00
JR-LEV-1-H	Replacement blade (Leviton, 41106, 41108, 5G108)	$58.00
JR-SYS-UNI-1	JackRapid (Systimax MPS100E, C5, M1BH, UNJ600/500/300)	$81.00
JR-SYS-UNI-1-H	Replacement blade (Systimax MPS100E, C5, M1BH, UNJ600/500/300)	$58.00
JR-LEV-2	JackRapid (Leviton 61110, 5G110, 6110G)	$81.00
JR-LEV-2-H	Replacement blade (Leviton 61110, 5G110, 6110G)	$58.00
JR-SYS-2	JackRapid (Systimax MGS400, MGS500, MFP420, MFP520)	$81.00
JR-SYS-2-H	Replacement blade (Systimax MGS400, MGS500, MFP420, MFP520)	$58.00
JR-ORT-2	JackRapid (Ortronics TJ5E00, TJ600, TJ610)	$81.00
JR-ORT-2-H	Replacement blade (Ortronics TJ5E00, TJ600, TJ610)	$58.00
JR-ADC-2	JackRapid Termination Tool (for ADC KM8, CopperTen)	$81.00
JR-ADC-2-H	JackRapid Replacement Blade Head (for ADC KM8, CopperTen)	$58.00
JR-PAN-2	JackRapid Termination Tool (for Panduit NK688M and NKP5E88M)	$81.00
JR-PAN-2-H	JackRapid Replacement Blade Head (for Panduit NK688M & NKP5E88M)	$58.00

- **BNC QuickPort Adapters**: F to F connector w/twist-on front/rear connections
- **F-Type QuickPort Adapters**: F to F connector w/screw-on front/rear connections
- **QuickPort Blank Inserts:** Fill unused QuickPort Openings
- **S-Video/110 Quickport Connectors:** S-Video connector on the front with 110 punchdown on the rear
- **RCA QuickPort Adapters:** Connectors w/pass through design for audio/video and home theater applications.
- **RCA-110 QuickPort Connectors:** Standard RCA connector on the front with 110 punchdown on the rear

BNC, Nickel Plated	41084-BIF	41084-BWF	41084-BAF	41084-BTF	4084-BEF	4084-BGF	$4.47
BNC, Gold Plated	40832-OBI	40832-OBW	40832-OBA	40832-OBT	-	-	$4.75
F-Type, Nickel Plated	41084-FIF	41084-FWF	41084-FAF	41084-FTF	41084-FEF	41084-FGF	$1.78
F-Type, Gold Plated	40831-OBI	40831-OBW	40831-OBA	40831-OBT	-	-	$2.75
S-Video Connector	40734-SVI	40734-SVW	40734-SVA	40734-SVT	40734-SVE	40734-SVG	$7.65
Blank Insert (10)	41084-BIB	41084-BWB	41084-BAB	41084-BTB	40184-BEB	40184-BGB	$0.17
RCA, w/Black Stripe	40830-BIE	40830-BWE	40830-BAE	40830-BTE	-	-	$3.25
RCA, w/Red Stripe	40830-BIR	40830-BWR	40830-BAR	40830-BTR	-	-	$3.25
RCA, w/Yellow Stripe	40830-BIY	40830-BWY	40830-BAY	40830-BTY	-	-	$3.25
RCA, w/Green Stripe	40830-BIV	40830-BWV	-	-	-	-	$3.25
RCA, w/Blue Stripe	40830-BIL	40830-BWL	-	-	-	-	$3.25
RCA-110 Connector	40735-R*I	40735-R*W	40735-R*A	40735-R*T	40735-R*E	40735-R*G	$5.85

HDMI & DVI Connectors			
3.5mm Stereo Connector	40839-SWS	40839-SIS	$6.25

* RCA-110 connector inner barrel color
- Orange, Red, White, Yellow, (Green & Blue available in Ivory & White Only)
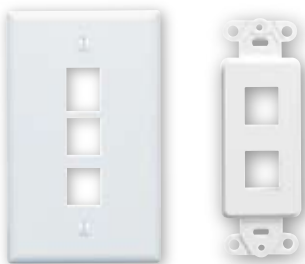
Wallplates offer field-configurable flexibility in a single piece housing. Compatible with all QuickPort Modules. QuickPort Decora Wallplate inserts match Leviton Decora electrical switches and outlets. QuickPort Modules fit neatly into a single-gang Decora wallplate & can combine with electrical devices in a multi-gang wallplate.

41080-6*P	6-Port QuickPort Single-Gang Wallplate	$1.45
41080-4*P	4-Port QuickPort Single-Gang Wallplate	$1.45
41080-3*P	3-Port QuickPort Single-Gang Wallplate	$1.45
41080-2*P	2-Port QuickPort Single-Gang Wallplate	$1.45
41080-1*P	1-Port QuickPort Single-Gang Wallplate	$1.45
41646-0**	QuickPort Decora Multimedia, 6-Port Insert	$3.30
41644-0**	QuickPort Decora Multimedia, 4-Port Insert	$3.30
41643-0**	QuickPort Decora Multimedia, 3-Port Insert	$3.30
41612-0**	QuickPort Decora Multimedia, 2-Port Insert	$3.30

Call for Volume Discounts

Opticom QuickNet Rack Mount Fiber Cassette Enclosures

- Mount to standard EIA 19" rack rails
- Suitable for all pre-terminated, field terminated, or field-splice applications
- Up to four cassettes or FAPs per rack unit for maximum patch field density
- Slide-out, tilt-down drawer provides full front access to all fibers and cables
- Integral bend radius control and cable management for fiber optic patch cords
- Innovative rear cable management for proper slacking/spooling of trunk cable break-outs interconnect cables
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket, and ID/caution labels) for various cable management solutions

FCE1U   FCE2U

FCE4U

| Part #	Part Description	# of Rack Spaces^	Std. Pkg. Qty.	
FCE1U	Holds up to four QuickNet™ Cassettes, FAP adapter panels, or FOSM splice modules: 1.73"H x 17.60"W x 16.30"D	1	1	$214.95
FCE1UA	Open access. Holds up to 4 QuickNet Cassettes, FAP adapter panels, or FOSM splice modules: 1.73"H x 17.60"W x 16.30"D	1	1	$214.95
FCE2U	Holds up to eight QuickNet™ Cassettes, FAP adapter panels, or FOSM splice modules: 3.48"H x 17.60"W x 16.30"D	2	1	$256.55
FCE4U	Holds up to twelve QuickNet™ Cassettes, FAP adapter panels, or FOSM splice modules: 6.98"H x 17.60"W x 16.30"D	4	1	$345.00

^One rack space = 1.75" (44.5mm).

Opticom Rack Mount Fiber Enclosures

- Mount to standard EIA 19" rack rails
- Suitable for all pre-terminated, field terminated, or field-splice applications
- Up to four cassettes or FAPs per rack unit for maximum patch field density
- Slide-out, tilt-down drawer provides full front access to all fibers and cables
- Integral bend radius control and cable management for fiber optic patch cords
- Rear cable management for proper slacking/spooling of trunk cable break-outs & interconnect cables
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket, and ID/caution labels) for various cable management solutions

FRME1U   FRME2U

FRME3   FRME4

Part #	Part Description	# of Rack Spaces^	Std. Pkg. Qty.	
FRME1U	Up to 3 FAP/FMP adapter panels or FOSM splice modules. Bidirectional sliding drawers provides front/rear access to fibers: 1.74"H x 17.00"W x 14.20"D	1	1	$181.65
FRME2U	Up to 6 FAP/FMP adapter panels or FOSM splice modules. Bidirectional sliding drawers provides front/rear access to fibers: 3.48"H x 17.00"W x 14.20"D	2	1	$225.00
FRME3	Up to 9 FAP/FMP adapter panels. Fixed bulkhead design: 5.00"H x 17.16"W x 11.80"D	3	1	$249.65
FRME4	Up to 12 FAP or FMP adapter panels. Fixed bulkhead design: 6.62"H x 17.16"W x 11.80"D	4	1	$285.00

^One rack space = 1.75" (44.45mm).   Optional locks available for rack mount enclosures.   All product color is black.
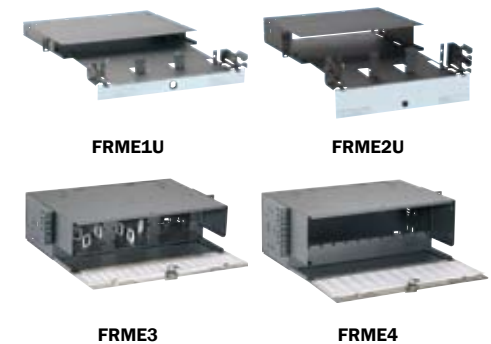
Opticom Rack Mount Fiber Trays & Patch Panels

- Mount to standard EIA 19" rack rails
- Standard front or angled front options
- Use with Opticom Fiber Adapter Patch Panels (below) to protect fibers and terminations
- Can be used as a back box for select Mini-Com Patch Panels
- Removable top cover provides access to connections, fibers, and slack storage in rear of tray
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions

FMT1   FMT2

FMT1A   FMT2A

CFAPPBL1   CFAPPBL2

CFAPPBL1A   CFAPPBL2A

Part #	Part Description	# of Rack Spaces^	Std. Pkg. Qty.	
Standard Fiber Mount Trays				
FMT1	Mount w/CFAPPBL1 fiber adapter patch panel to hold up to 4 QuickNet Cassettes, FAP, and FMP adapter panels: 1.75"H x 17.16"W x 11.16"D	1	1	$109.65
FMT2	Mount w/CFAPPBL2 fiber adapter patch panel to hold up to 8 QuickNet Cassettes, FAP, or FMP panels. Dimensions: 3.48"H x 17.16"W x 11.16"D	2	1	$123.75
Standard Fiber Adapter Patch Panels				
CFAPPBL1	Flat fiber patch panel. Holds up to four FAP or FMP adapter panels.	1	1	$21.10
CFAPPBL2	Flat fiber patch panel. Holds up to eight FAP or FMP adapter panels.	2	1	$26.45
Angled Fiber Mount Trays				
FMT1A	Mount w/CFAPPBL1A angled fiber adapter patch panel to hold up to 4 FAP or FMP adapter panels. Dimensions: 1.75"H x 17.16"W X 11.16"D	1	1	$130.25
FMT2A	Mount w/CFAPPBL2A angled fiber adapter patch panel to hold up to 8 FAP or FMP adapter panels. Dimensions: 3.48"H x 17.16"W x 11.16"D	2	1	$145.60
Angled Fiber Adapter Patch Panels				
CFAPPBL1A	Angled fiber patch panel. Holds up to four FAP or FMP adapter panels.	1	1	$38.40
CFAPPBL2A	Angled fiber patch panel. Holds up to eight FAP or FMP adapter panels.	2	1	$48.15

^One rack space = 1.75" (44.45mm).   All product color is black.

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QAPP24BL

QAPP48HDBL

QPP24BL

QPP48HDBL

QPPABL

QPPBBL

- Accept QuickNet Copper Cable Assemblies & QuickNet SFQ Series MTP* Fiber Optic Cassettes which snap in and out with one hand
- High-density patch panels conserve valuable rack space
- Angled patch panels facilitate proper bend radius control & minimize the need for horizontal cable managers
- All metal patch panels accept shielded cassettes, no additional grounding kit required
- Pre-printed numbers above each port for easy identification
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets
- Label/label cover kit (QPPLC24) provides port and panel identification for 24-port patch panels

Part #	Part Description	Rack Spaces^	Pkg. Qty.	Ctn. Qty.	
QuickNet ™ Angled Patch Panels					
QAPP24BL	24-port angled patch panel. Accepts QuickNet Pre-Terminated Cassettes and Patch Panel Adapters.	1	1	10	$62.05
QAPP48HDBL	48-port angled patch panel. Accepts QuickNet Pre-Terminated Cassettes & Patch Panel Adapters.	1	1	10	$151.30
QAPP48HDVNSBL	48-port angled patch panel. Accepts QuickNet Pre-Terminated Cassettes & Patch Panel Adapters. Numbering sequence is top to bottom.	1	1	10	$151.30
QuickNet ™ Flat Patch Panels					
QPP24BL	24-port patch panel. Accepts QuickNet Pre-Terminated Cassettes & Patch Panel Adapters.	1	1	10	$32.60
QPP48HDBL	48-port patch panel. Accepts QuickNet Pre-Terminated Cassettes & Patch Panel Adapters.	1	1	10	$88.15
QPP48HDVNSBL	48-port patch panel. Accepts QuickNet Pre-Terminated Cassettes & Patch Panel Adapters. Numbering sequence is top to bottom.	1	1	10	$88.15
Patch Panel Adapter					
QPPABL	QuickNet ™ Patch Panel Adapter which accepts Mini-Com ® Modules for UTP, fiber optic, and audio/visual applications.	—	1	10	$4.55
Patch Panel Blank					
QPPBBL	QuickNet ™ Patch Panel Blank reserves space for future use and promotes proper airflow and cooling.	—	1	10	$4.45
Patch Panel Label Kit					
QPPLC24	Label/label cover kit for 24-port QuickNet ™ Patch Panels. Each kit contains four labels and four clear label covers per bag.	—	1	10	$5.25

*MTP is a registered trademark of US Conec Ltd. ^One rack space = 1.75" (44.45mm). M6 and #12-24 mounting screws included.

Opticom Wall Mount Enclosures

FWME2

FWME8

- Holds Opticom Fiber Adapter Panels (FAPs)
- Rugged all metal construction for fiber protection and secure mounting
- Separate doors for service side and user side with optional keyed locks for added security
- Include fiber optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions

Part #	Part Description	Pkg. Qty.	
Fiber Wall Mount Enclosures			
FWME2	Holds up to 2 QuickNet™ Cassettes, FAP, or FMP panels: 12.00"W x 10.18"H x 2.32"D	1	$60.60
FWME4	Holds up to 4 QuickNet™ Cassettes, FAP, or FMP panels: 16.11"W x 12.25"H x 3.52"D	1	$135.45
FWME8	Holds up to 8 QuickNet™ Cassettes, FAP, or FMP panels: 16.11"W x 16.11"H x 5.00"D	1	$157.45
Fiber Accessories			
FELS	Fiber enclosure lock for service side.	1	$9.75
FELU	Fiber enclosure lock for user side.	1	$9.75

All product color is black.   *MTP is a registered trademark of US Conec Ltd.

Opticom MPO Fiber Optic Adapter Panels (FAPs)

FAPH0412BLMPO

FAPH0612BLMPO

FAPH0812BLMPO

FAPH1212BLMPO

- Loaded with TIA/EIA-604 FOCIS-5 compliant adapters
- Exceed TIA/EIA-568-C.3 requirements
- Screen printed for horizontal or vertical orientation
- Designed for multimode or singlemode MPO connectors, patch cords, or cable assemblies
- Snap quickly into the front of all Opticom and Opticom QuickNet Components
- Can be used with Opticom Zero RU Cable Management Solutions and QuickNet Hydra Cable Assemblies to facilitate connection to the active equipment

Part Number	Part Description	
FAPH0412BLMPO	Opticom MPO FAP loaded w/(4) key-up/key-up MPO fiber adapters; oriented horizontally	$133.35
FAPH0612BLMPO	Opticom MPO FAP loaded w/(6) key-up/key-up MPO fiber adapters; oriented horizontally	$200.00
FAPH0812BLMPO	Opticom MPO FAP loaded w/(8) key-up/key-up MPO fiber adapters; oriented horizontally	$265.00
FAPH1212BLMPO	Opticom MPO FAP loaded w/(12) key-up/key-up MPO fiber adapters; oriented horizontally	$400.00
FAPH1612BLMPO	Opticom MPO FAP loaded w/(16) key-up/key-up MPO fiber adapters; oriented horizontally	$535.00
FAPH1812BLMPO	Opticom MPO FAP loaded w/(18) key-up/key-up MPO fiber adapters; oriented horizontally	$600.00
FAPV0412BLMPO	Opticom MPO FAP loaded w/(4) key-up/key-up MPO fiber adapters; oriented vertically	$133.35
FAPV0612BLMPO	Opticom MPO FAP loaded w/(6) key-up/key-up MPO fiber adapters; oriented vertically	$200.00
FAPV0812BLMPO	Opticom MPO FAP loaded w/(8) key-up/key-up MPO fiber adapters; oriented vertically	$265.00

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PANDUIT logo top right.

LC Opticom Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-10 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Snap quickly into the front of all Opticom components
- LC fiber adapter panels are Sr./Jr. to conserve enclosure space
- Accept FOCIS-10 compatible senior LC connectors at either end and FOCIS-10 junior LC connectors at the inside end for behind the wall applications
- Both ends accept FOCIS-10 compatible senior LC connectors
- Junior end also accepts FOCIS-10 compatible junior (fixed ferrule/springless) LC connectors
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3/OM4 multimode and OS1/OS2 singlemode applications
- Every adapter is laser marked with Q.C. number to assure 100% traceability

FAP6WAQDLCZ   FAP8WBLDLC

FAP6WEIDLC   FAP8WEIDLC

FAP12WEIDLC   FAP12WBULCZ

Part #	Part Description	
LC Fiber Adapter Panels – 10Gig OM3/OM4 50/125µm (Aqua Adapters)		
FAP6WAQDLCZ	LC 10Gig FAP loaded w/6 LC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/zirconia ceramic split sleeves.	$87.45
FAP6WAQDLC	LC 10Gig FAP loaded w/6 LC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/phosphor bronze split sleeves.	$68.35
FAP8WAQDLCZ	LC 10Gig FAP loaded w/8 LC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/zirconia ceramic split sleeves.	$171.09
FAP8WAQDLC	LC 10Gig FAP loaded w/8 LC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/phosphor bronze split sleeves.	$94.80
FAP12WAQDLCZ	LC 10Gig FAP loaded w/12 LC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/zirconia ceramic split sleeves.	$121.25
FAP12WAQDLC	LC 10Gig FAP loaded w/12 LC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/phosphor bronze split sleeves.	$133.95
LC Fiber Adapter Panels – OM2 50/125µm (Black Adapters)		
FAP6WBLDLC	LC FAP loaded w/6 LC duplex MM fiber adapters (Black) w/phosphor bronze split sleeves.	$71.10
FAP8WBLDLC	LC FAP loaded w/8 LC duplex MM fiber adapters (Black) w/phosphor bronze split sleeves.	$94.80
FAP12WBLDLC	LC FAP loaded w/12 LC duplex MM fiber adapters (Black) w/phosphor bronze split sleeves.	$133.80
LC Fiber Adapter Panels – OM1 62.5/125µm (Electric Ivory Adapters)		
FAP6WEIDLC	LC FAP loaded w/6 LC duplex MM fiber adapters (Electric Ivory) w/phosphor bronze split sleeves.	$71.10
FAP8WEIDLC	LC FAP loaded w/8 LC duplex MM fiber adapters (Electric Ivory) w/phosphor bronze split sleeves.	$94.80
FAP12WEIDLC	LC FAP loaded w/12 LC duplex MM fiber adapters (Electric Ivory) w/phosphor bronze split sleeves.	$133.80
LC Fiber Adapter Panels – OS1/OS2 9/125µm (Blue Adapters)		
FAP12WBULCZ	LC FAP loaded w/12 LC simplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$171.10
FAP6WBUDLCZ	LC FAP loaded w/6 LC duplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$87.60
FAP8WBUDLCZ	LC FAP loaded w/8 LC duplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$121.25
FAP12WBUDLCZ	LC FAP loaded w/12 LC duplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$171.10
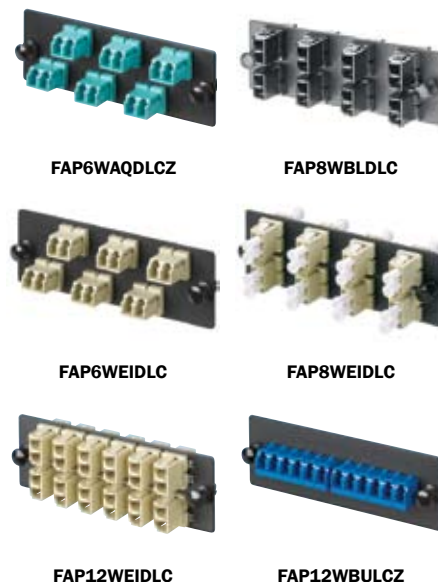
SC Opticom Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-3 compliant adapters
- Exceed TIA/EIA-568-C.3 requirements
- Snap quickly into the front of all Opticom components
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3/OM4 multimode and OS1/OS2 singlemode applications
- Q.C. number and split sleeve material laser marked on every adapter assures 100% traceability and quick and easy identification of split sleeve material
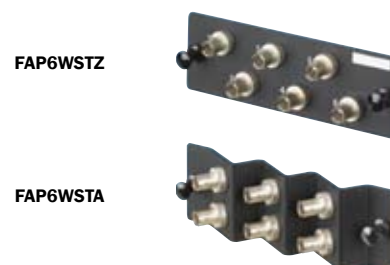
FAP6WAQDLCZ   FAP6WBUSCZ

FAP6WEIDLC   FAP6WBUDSCZ

FAP12WEIDLC   FAP6WAGSCZ

FAP12WAGSCZ   FAP6WAGDSCZ

Part #	Part Description	
SC Fiber Adapter Panels – 10Gig OM3/OM4 50/125µm (Aqua Adapters)		
FAP6WAQSCZ	SC 10Gig FAP loaded w/6 SC 10Gig Simplex MM Fiber Adapters (Aqua) w/zirconia ceramic split sleeves.	$57.10
FAP6WAQDSCZ	SC 10Gig FAP loaded w/6 SC 10Gig Duplex MM Fiber Adapters (Aqua) w/zirconia ceramic split sleeves.	$114.15
FAP6WAQDSC	SC 10Gig FAP loaded w/6 SC 10Gig™ Duplex MM Fiber Adapters (Aqua) w/phosphor bronze split sleeves.	$89.85
SC Fiber Adapter Panels – OM2 50/125µm (Black Adapters)		
FAP6WBLSC	SC FAP loaded w/6 SC simplex MM fiber adapters (Black) w/phosphor bronze split sleeves.	$38.10
FAP12WBLSC	SC FAP loaded w/12 SC simplex MM fiber adapters (Black) w/phosphor bronze split sleeves.	$66.75
FAP6WBLDSC	SC FAP loaded w/6 SC duplex MM fiber adapters (Black) w/phosphor bronze split sleeves.	$67.15
SC Fiber Adapter Panels – OM1 62.5/125µm (Electric Ivory Adapters)		
FAP6WEISC	SC FAP loaded w/6 SC simplex MM fiber adapters (Electric Ivory) w/phosphor bronze split sleeves.	$38.10
FAP12WEISC	SC FAP loaded w/12 SC simplex MM fiber adapters (Electric Ivory) w/phosphor bronze split sleeves.	$66.75
FAP3WEIDSC	SC FAP loaded w/three SC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	$37.25
FAP6WEIDSC	SC FAP loaded with six SC duplex multimode fiber optic adapters (Electric Ivory) with phosphor bronze split sleeves.	$67.15
SC Fiber Adapter Panels – OS1/OS2 9/125µm (Blue Adapters)		
FAP6WBUSCZ	SC FAP loaded w/6 SC simplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$57.10
FAP12WBUSCZ	SC FAP loaded w/12 SC simplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$87.35
FAP6WBUDSCZ	SC FAP loaded w/6 SC duplex SM fiber adapters (Blue) w/zirconia ceramic split sleeves.	$114.15
SC Fiber Adapter Panels – APC OS1/OS2 9/125µm (Green Adapters)		
FAP6WAGSCZ	SC APC FAP loaded w/6 SC APC simplex SM fiber adapters (Green) w/zirconia ceramic split sleeves.	$48.20
FAP12WAGSCZ	SC APC FAP loaded w/12 SC APC simplex SM fiber adapters (Green) w/zirconia ceramic split sleeves.	$97.05
FAP6WAGDSCZ	SC APC FAP loaded w/6 SC APC duplex SM fiber adapters (Green) w/zirconia ceramic split sleeves.	$84.98
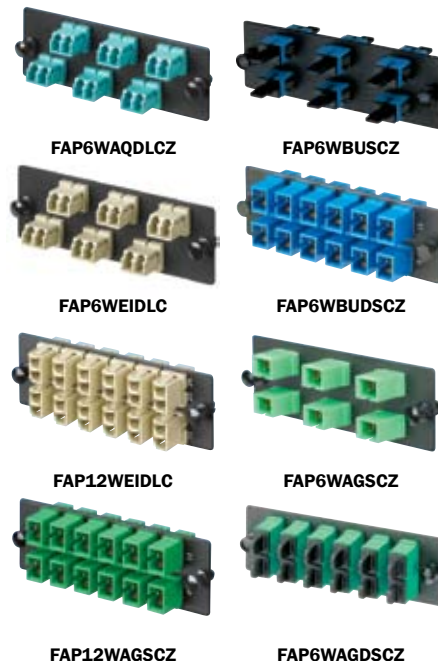
ST Opticom Fiber Adapter Panels (FAPs)

- Loaded with TIA/EIA-604 FOCIS-2 compatible adapters
- Exceed TIA/EIA-568-B.3 requirements
- Snap quickly into the front of all Opticom ® components
- Choice of phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements; zirconia ceramic split sleeves are recommended for OM3 multimode and OS1/OS2 singlemode applications

FAP6WSTZ

FAP6WSTA

Part #	Part Description	
FAP6WSTZ	ST FAP loaded with six ST simplex singlemode fiber optic adapters with zirconia ceramic split sleeves.	$34.98
FAP6WST	ST FAP loaded with six ST simplex multimode fiber optic adapters with phosphor bronze split sleeves.	$33.25
FAP6WSTA	ST FAP (angled) loaded with six ST simplex multimode fiber optic adapters with phosphor bronze split sleeves.	$40.75

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QuickNet™ SFQ Series MTP Fiber Optic Cassettes

FQXO-12-10

FQ5-12-10

FQ9-12-10

- Compatible w/QuickNet Patch Panels for up to 96 fiber connections in 1RU with QAPP48HDBL QuickNet 48-port Angled Patch Panel
- Low insertion loss of 0.5dB max. per cassette & 1.0dB max. per standard cassette; system meets IEEE 802.3ae max. channel loss specification of <2.6dB Return loss >26dB (10Gig MM) >20dB (MM) >55dB (SM)
- Connect together w/high-density female MTP cable assemblies as interconnecting network segments for deploying a remote or data center location in minutes
- Significantly reduce installation time & labor by eliminating field connector terminations
- Insertion loss data provided on every fiber cassette
- Return loss data provided on all singlemode fiber cassettes

Part Number	Part Description	
Optimized 10Gig 50/125µm (OM3) Multimode SFQ Series MTP Cassettes		
FQXO-12-10	Optimized OM3 10Gig 50/125µm Six LC duplex adapters to one male MTP; 12-fiber optimized pre-terminated MTP rear mount cassette provides low insertion loss of 0.5dB max. per fiber. Method A.	$455.00
10Gig 50/125µm (OM3) Multimode SFQ Series MTP Cassettes		
FQX-12-10	OM3 10Gig 50/125µm Six LC duplex adapters to one male MTP; 12-fiber pre-terminated MTP rear mount SFQ cassette provides low insertion loss of 1.0dB max. per fiber.	$380.00
50/125µm (OM2) Multimode SFQ Series MTP Cassettes		
FQ5-12-10	OM2 50/125µm Six LC duplex adapters to one male MTP; 12-fiber pre-terminated MTP rear mount cassette provides low insertion loss of 1.0dB max. per fiber.	$335.00
62.5/125µm (OM1) Multimode SFQ Series MTP Cassettes		
FQ6-12-10	OM1 62.5/125µm Six LC duplex adapters to one male MTP*; 12-fiber pre-terminated MTP rear mount cassette provides low insertion loss of 1.0dB max. per fiber.	$335.00
9/125µm (OS1/OS2) Singlemode SFQ Series MTP Cassettes		
FQ9-12-10	OS1/OS2 Singlemode Six LC duplex adapters to one male MTP; 12-fiber pre-terminated MTP rear mount cassette provides low insertion loss of 1.0dB max. per fiber.	$455.00

QuickNet High Density SFQ Small Form Factor Cable Assemblies

- Identical copper and fiber cassette form factor offers design flexibility, easy maintenance and upgrade enabling a unified, highly scalable pre-terminated solution
- High-density design maximizes density with up to 72 fibers in one cassette, 576 in 1RU; combination of design features provide a lower total cost of ownership
- Pre-terminated modular cassette system provides quick deployment that reduces installation time and cost.
- Product identification with data labels and QC numbers which are supplied with each product for quick port identification and 100% traceability

Part #	Part Description	
FQPX48VVM050N	48 Fiber 10Gig ™ plenum rated high density Female MTP SFQ Cassette to Female MTP SFQ Cassette cable assembly – 50m	Call for pricing

QuickNet MTP Fiber Optic Cassettes

FCZ-12-10Y

FC6-24-10Y

FC6STMFCSY

- Compatible with Opticom QuickNet Rack Mount Fiber Cassette Enclosures, Opticom Zero RU Cable Management Solutions, and Opticom Wall Mount Enclosures, for up to 96 fiber connections in 1RU
- Low insertion loss of 0.5dB max. per optimized cassette and 1.0dB max. per standard cassette; ensures system meets IEEE 802.3ae max. channel loss specification of <2.6dB
- Return loss: >26dB (10Gig multimode), >20dB (multimode), >55dB (singlemode)
- Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Connect together with high-density female MTP* cable assemblies as interconnecting network segments for deploying a remote or data center location in minutes
- Insertion loss data provided on every fiber cassette
- Return loss data provided on all singlemode fiber cassettes
- 10Gig OM3 50/125µm Fiber Cassettes are tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters and up to 550 meters for OM4 at 850nm; backward compatible with all 50/125µm (OM2) MPO or MTP* system requirements

Part Number	Part Description	
Optimized 10Gig 50/125µm (OM3) Multimode MTP Cassettes		
FCXO-12-10Y	Optimized OM3 10Gig 50/125µm 6 LC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$415.00
FCXO-24-10Y	Optimized OM3 10Gig 50/125µm 12 LC duplex adapters to two male 12-fiber pre-terminated MTP connectors.	$835.00
FCXO-12-3Y	Optimized OM3 10Gig 50/125µm 6 SC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$510.00
10Gig 50/125µm (OM4) Multimode MTP Cassettes		
FCZ-12-10Y	OM4 10Gig QuickNet 6 LC duplex adapters to one male MTP connector. Method A.	$381.35
FCZ-24-10Y	OM4 10Gig QuickNet 12 LC duplex adapters to two male MTP connectors. Method A.	$762.65
FCZ-12-3Y	OM4 10Gig QuickNet 6 SC duplex adapters to one male MTP connector. Method A.	$381.35
62.5/125µm (OM1) Multimode MTP Cassettes		
FC6-12-10Y	OM1 62.5/125µm six LC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$304.00
FC6-24-10Y	OM1 62.5/125µm twelve LC duplex adapters to two male 12-fiber pre-terminated MTP connectors.	$610.00
FC6-12-3SY	OM1 62.5/125µm six SC simplex adapters to one male 12-fiber pre-terminated MTP connector.	$304.00
FC6-12-3Y	OM1 62.5/125µm six SC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$304.00
FC6-6-3	OM1 62.5/125µm three SC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$320.00
9/125µm (OS1/OS2) Singlemode MTP Cassettes		
FC9-12-10Y	OS1/OS2 Singlemode six LC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$415.00
FC9-24-10Y	OS1/OS2 Singlemode twelve LC duplex adapters to two male 12-fiber pre-terminated MTP connectors.	$832.00
FC9-12-3SY	OS1/OS2 Singlemode six SC simplex adapters to one male 12-fiber pre-terminated MTP connector.	$490.88
FC9-12-3Y	OS1/OS2 Singlemode six SC duplex adapters to one male 12-fiber pre-terminated MTP connector.	$415.00
FC6STMFCSY	Six ST simplex adapters to one male MTP; 6-fiber pre-terminatied MTP cassette orivides low insertion loss of 1.0dB max. per fiber; singlemode (OS1/OS2) fiber	$720.30

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QuickNet Hydra Cable Assemblies

- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Jacketed cable is compliant with NFPA 262 (OFNP) flame rating
- MTP (12-fiber) connectors are FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical, 0.75dB max.
- Traditional connectors (Panduit LC, SC, and ST) provide design flexibility throughout the data center
- Insertion loss per mated pair: 0.10dB typical, 0.30dB max. (multimode); 0.25dB typical, 0.50dB max. (SM)
- Factory terminated and 100% tested for insertion loss (test data supplied with each assembly); SM and 10Gig MM Hydra Cable Assemblies also tested for return loss
- TIA/EIA-568-B.1-7 standards based polarity supports 10 Gb/s, multimode, and singlemode fiber types, and allows infrastructure backwards compatibility for component interchangeability and a lower cost of ownership
- 10Gig™ laser optimized fiber is tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm
- Application specific designs available to tailor configuration, reach, and breakout construction to application requirements; for more information contact

Part #	Part Description	Length (m)^	
MTP to LC Duplex – 10Gig OM3 50/125µm Multimode Plenum Hydra Cable Assemblies			
FHPX126LM005N	MTP to LC duplex 12-fiber OM3 MM Plenum Rated Hydra Cable Assembly w/std. 24" breakout length.	5	$537.05
FHPX126LM010N	MTP to LC duplex 12-fiber OM3 MM Plenum Rated Hydra Cable Assembly w/std. 24" breakout length.	10	$568.95
FHPX126LM015N	MTP to LC duplex 12-fiber OM3 MM Plenum Rated Hydra Cable Assembly w/std. 24" breakout length.	15	$600.85
FHPX126LM020N	MTP to LC duplex 12-fiber OM3 MM Plenum Rated Hydra Cable Assembly w/std. 24" breakout length.	20	$632.70
MTP to LC Duplex – OM2 50/125µm Multimode Plenum Hydra Cable Assemblies			
FHP5126LM005N	MTP to LC duplex 12-fiber OM2 MM plenum rated hydra cable assembly w/std. 24" breakout length.	5	$524.55
FHP5126LM010N	MTP to LC duplex 12-fiber OM2 MM plenum rated hydra cable assembly w/std. 24" breakout length.	10	$543.90
FHP5126LM015N	MTP to LC duplex 12-fiber OM2 MM plenum rated hydra cable assembly w/std. 24" breakout length.	15	$563.25
FHP5126LM020N	MTP to LC duplex 12-fiber OM2 MM plenum rated hydra cable assembly w/std. 24" breakout length.	20	$582.65
MTP to LC Duplex – OS1/OS2 9/125µm Singlemode Plenum Hydra Cable Assemblies			
FHP9126LM005N	MTP to LC duplex 12-fiber OS1/OS2 SM plenum rated hydra cable assembly w/std. 24" breakout length.	5	$609.35
FHP9126LM010N	MTP to LC duplex 12-fiber OS1/OS2 SM plenum rated hydra cable assembly w/std. 24" breakout length.	10	$623.30
FHP9126LM015N	MTP to LC duplex 12-fiber OS1/OS2 SM plenum rated hydra cable assembly w/std. 24" breakout length.	15	$637.25
FHP9126LM020N	MTP to LC duplex 12-fiber OS1/OS2 SM plenum rated hydra cable assembly w/std. 24" breakout length.	20	$651.15

^Additional lengths and availability: The above lengths and configurations are stock items.
For other lengths or configurations, contact Customer Service for actual lead times.
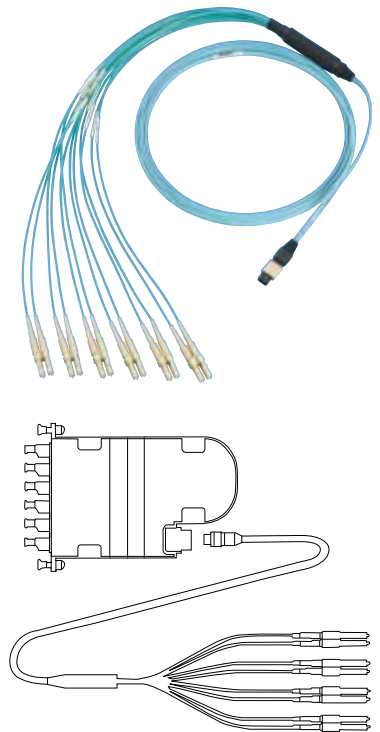
QuickNet MTP Interconnect Cable Assemblies – Multimode 10Gig 50/125µm (OM3 and OM4)

- Pass all TIA/EIA-568-B.3 performance requirements
- FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters for OM3 and up to 550 meters for OM4 at 850nm with 50/125µm (OM3 and OM4) laser optimized fiber
- Backward compatible with all 50/125µm (OM2) MPO or MTP system requirements
- Factory terminated and 100% tested for insertion loss
- Insertion loss and return loss data recorded for every 10Gig Multimode Interconnect Cable Assembly
- Lifetime traceability of test data to a Q.C. number on each cable assembly

Part #	Part Description	Length (m)^	
MTP Interconnect Cable Assemblies – Multimode 10Gig ™ OM3 50/125µm			
FX12D5-5M1Y	Female MTP to female MTP 12-fiber interconnect cable assembly (one female MTP connector on each end on ribbon interconnect cable) – 10Gig 50/125µm. Outside diameter: 5mm x 2.5mm.	1	$275.95

For OM4 interconnect assembly, replace the X (FX12D5-5M1Y) with Z (FZ12D5-5M1Y). ^Additional lengths and availability: Interconnect cable assemblies are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (FZ12D5-5M1) with the desired length (FZ12D5-5M2 for 2 meter length). The above lengths are stock items. For other lengths or male MTPs, contact Customer Service for actual lead times.
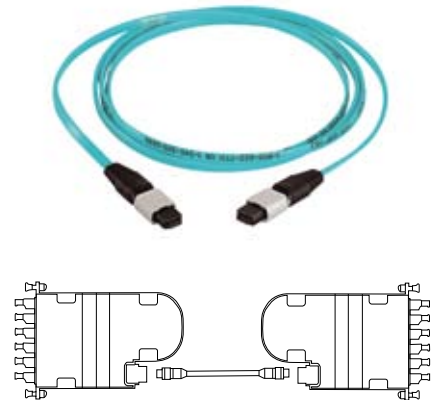
QuickNet MTP Interconnect Cable Assemblies – Multimode 50/125µm (OM2)

- Pass all TIA/EIA-568-B.3 performance requirements
- FOCIS-5 compliant
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Factory terminated and 100% tested for insertion loss
- Insertion loss data recorded for every multimode cable assembly
- Lifetime traceability of test data to a Q.C. number on each cable assembly

Part #	Part Description	Length (m)^	
F512D5-5M1Y	Female MTP to female MTP 12-fiber interconnect cable assembly (one female MTP connector on each end on ribbon interconnect cable) – 50/125µm.	1	$249.60

^Additional lengths and availability: Interconnect cable assemblies are available in 1 – 10 meter lengths in 1 meter increments, and 15, 20, 25 and 30 meter lengths. To order lengths other than 1 meter, replace the 1 after the M (F512D5-5M1Y) with the desired length (F512D5-5M2Y for 2 meter length). The above lengths are stock items. For other lengths or male MTPs, contact Customer Service for actual lead times.
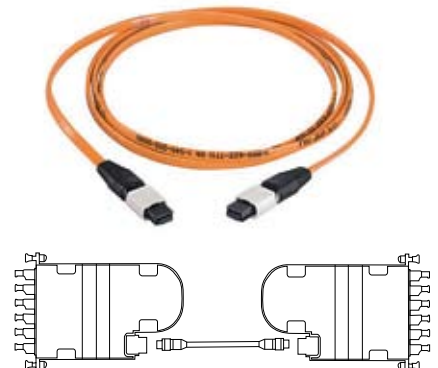
Call for Volume Discounts

PANDUIT®

- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements.
- Jacketed cable is compliant with NFPA 262 (OFNP) flame rating.
- MTP (12-fiber) connectors are FOCIS-5 compliant.
- Insertion loss per mated pair: 0.50dB typical, 0.75dB max.
- Panduit proprietary MTP* polishing provides low insertion loss and high return loss, minimizing variability for improved channel link loss performance.
- TIA/EIA-568-B.1-7 (Method A) standards based polarity supports 10 Gb/s, MM, and SM fiber types, & allows infrastructure backwards compatibility for component interchangeability and a lower cost of ownership.
- 10Gig laser optimized fiber is tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 meters at 850nm.
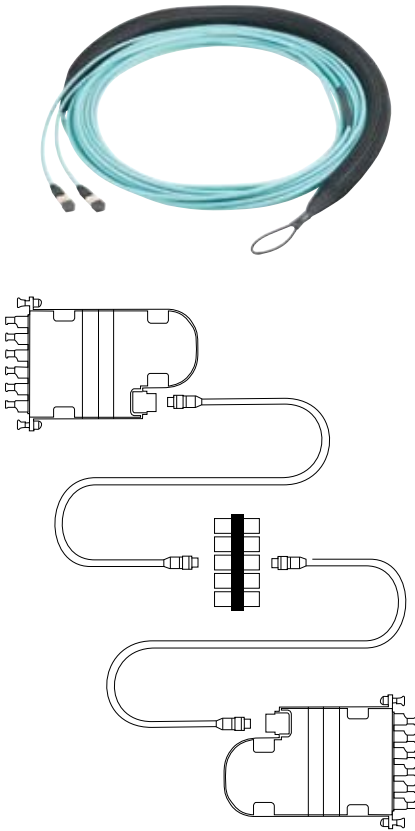
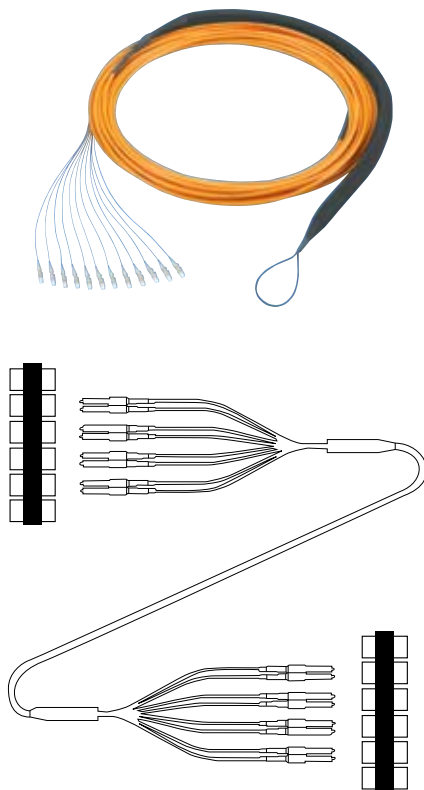| Part #	Part Description	Length (Ft.)^	
Female MTP to Female MTP – 10Gig OM3 Multimode Plenum Trunk Cable Assemblies			
FSPX1255F100A	(F) MTP to (F) MTP 12-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	100	$669.45
FSPX1255F150A	(F) MTP to (F) MTP 12-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	150	$775.00
FSPX1255F200A	(F) MTP to (F) MTP 12-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	200	$885.00
FSPX2455F100A	(F) MTP to (F) MTP 24-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	100	$1335.00
FSPX2455F150A	(F) MTP to (F) MTP 24-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	150	$1565.00
FSPX2455F200A	(F) MTP to (F) MTP 24-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	200	$1795.00
FSPX4855F100A	(F) MTP to (F) MTP 48-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	100	$3015.00
FSPX4855F150A	(F) MTP to (F) MTP 48-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	150	$3675.00
FSPX4855F200A	(F) MTP to (F) MTP 48-fiber 10Gig 50/125µm Trunk Cable Assembly w/ pulling eye on one end.	200	$4340.00
Female MTP to Female MTP – OM2 Multimode Plenum Trunk Cable Assemblies			
FSP51255F100A	(F) MTP to (F) MTP 12-fiber 50/125µm trunk cable assembly w/pulling eye on one end.	100	$690.85
FSP51255F150A	(F) MTP to (F) MTP 12-fiber 50/125µm trunk cable assembly with pulling eye on one end.	150	$784.10
FSP51255F200A	(F) MTP to (F) MTP 12-fiber 50/125µm trunk cable assembly with pulling eye on one end.	200	$877.32
FSP52455F100A	(F) MTP to (F) MTP 24-fiber 50/125µm trunk cable assembly with pulling eye on one end.	100	$1360.00
FSP52455F150A	(F) MTP to (F) MTP 24-fiber 50/125µm trunk cable assembly with pulling eye on one end.	150	$1545.00
FSP52455F200A	(F) MTP to (F) MTP 24-fiber 50/125µm trunk cable assembly with pulling eye on one end.	200	$1735.00
FSP54855F100A	(F) MTP to (F) MTP 48-fiber 50/125µm trunk cable assembly with pulling eye on one end.	100	$2975.00
FSP54855F150A	(F) MTP to (F) MTP 48-fiber 50/125µm trunk cable assembly with pulling eye on one end.	150	$3585.00
FSP54855F200A	(F) MTP to (F) MTP 48-fiber 50/125µm trunk cable assembly with pulling eye on one end.	200	$4195.00
Female MTP to Female MTP – OS1/OS2 Singlemode Plenum Trunk Cable Assemblies			
FSP91255F100A	(F) MTP to (F) MTP 12-fiber 9/125µm trunk cable assembly with pulling eye on one end.	100	$795.00
FSP91255F150A	(F) MTP to (F) MTP 12-fiber 9/125µm trunk cable assembly with pulling eye on one end.	150	$872.50
FSP91255F200A	(F) MTP to (F) MTP 12-fiber 9/125µm trunk cable assembly with pulling eye on one end.	200	$952.75
FSP92455F100A	(F) MTP to (F) MTP 24-fiber 9/125µm trunk cable assembly with pulling eye on one end.	100	$1595.00
FSP92455F150A	(F) MTP to (F) MTP 24-fiber 9/125µm trunk cable assembly with pulling eye on one end.	150	$1755.00
FSP92455F200A	(F) MTP to (F) MTP 24-fiber 9/125µm trunk cable assembly with pulling eye on one end.	200	$1915.00
FSP94855F100A	(F) MTP to (F) MTP 48-fiber 9/125µm trunk cable assembly with pulling eye on one end.	100	$3545.00
FSP94855F150A	(F) MTP to (F) MTP 48-fiber 9/125µm trunk cable assembly with pulling eye on one end.	150	$4060.00
FSP94855F200A	(F) MTP to (F) MTP 48-fiber 9/125µm trunk cable assembly with pulling eye on one end.	200	$4575.00

Opti-Core Traditional Trunk Cable Assemblies

- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements
- LC and SC connector housing and boot colors follow TIA/EIA-568-C.3 suggested color identification scheme
- Jacketed cable is compliant with UL1666 (OFNR) or NFPA 262 (OFNP) flame rating
- Insertion loss per mated pair: 0.10dB typical, 0.30dB max. (MM); 0.25dB typical, 0.50dB max. (SM)
- Traditional connectors (Panduit LC, SC, and ST) provide design flexibility throughout the data center
- Factory terminated and 100% tested for insertion loss (test data supplied with each assembly); SM and 10Gig MM Trunk Cable Assemblies are also tested for return loss

Part #	Part Description	Length (Ft.)^	
LC to LC Simplex – 10Gig™ OM3 Multimode Plenum Trunk Cable Assemblies			
FSPX1211F100A	LC to LC simplex 12-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	100	$899.25
FSPX1211F150A	LC to LC simplex 12-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	150	$1004.55
FSPX1211F200A	LC to LC simplex 12-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	200	$1109.95
FSPX2411F100A	LC to LC simplex 24-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	100	$1795.00
FSPX2411F150A	LC to LC simplex 24-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	150	$2040.00
FSPX2411F200A	LC to LC simplex 24-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	200	$2285.00
FSPX4811F100A	LC to LC simplex 48-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	100	$3605.00
FSPX4811F150A	LC to LC simplex 48-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	150	$4220.00
FSPX4811F200A	LC to LC simplex 48-fiber 10Gig™ 50/125µm Trunk Cable Assembly with pulling eye on one end.	200	$4835.00
LC to LC Simplex – OM2 Multimode Plenum Trunk Cable Assemblies			
FSP51211F100A	LC to LC simplex 12-fiber 50/125µm trunk cable assembly with pulling eye on one end.	100	$915.95
FSP51211F150A	LC to LC simplex 12-fiber 50/125µm trunk cable assembly with pulling eye on one end.	150	$1005.75
FSP51211F200A	LC to LC simplex 12-fiber 50/125µm trunk cable assembly with pulling eye on one end.	200	$1095.49
FSP52411F100A	LC to LC simplex 24-fiber 50/125µm trunk cable assembly with pulling eye on one end.	100	$1705.00
FSP52411F150A	LC to LC simplex 24-fiber 50/125µm trunk cable assembly with pulling eye on one end.	150	$1905.00
FSP52411F200A	LC to LC simplex 24-fiber 50/125µm trunk cable assembly with pulling eye on one end.	200	$2105.00
FSP54811F100A	LC to LC simplex 48-fiber 50/125µm trunk cable assembly with pulling eye on one end.	100	$3410.00
FSP54811F150A	LC to LC simplex 48-fiber 50/125µm trunk cable assembly with pulling eye on one end.	150	$3935.00
FSP54811F200A	LC to LC simplex 48-fiber 50/125µm trunk cable assembly with pulling eye on one end.	200	$4455.00
LC to LC Simplex – OS1/OS2 Singlemode Plenum Trunk Cable Assemblies			
FSP91211F100A	LC to LC simplex 12-fiber 9/125µm trunk cable assembly with pulling eye on one end.	100	$960.00
FSP91211F150A	LC to LC simplex 12-fiber 9/125µm trunk cable assembly with pulling eye on one end.	150	$1025.00
FSP91211F200A	LC to LC simplex 12-fiber 9/125µm trunk cable assembly with pulling eye on one end.	200	$1095.00
FSP92411F100A	LC to LC simplex 24-fiber 9/125µm trunk cable assembly with pulling eye on one end.	100	$2051.00
FSP92411F150A	LC to LC simplex 24-fiber 9/125µm trunk cable assembly with pulling eye on one end.	150	$2235.00
FSP92411F200A	LC to LC simplex 24-fiber 9/125µm trunk cable assembly with pulling eye on one end.	200	$2415.00
FSP94811F100A	LC to LC simplex 48-fiber 9/125µm trunk cable assembly with pulling eye on one end.	100	$4045.00
FSP94811F150A	LC to LC simplex 48-fiber 9/125µm trunk cable assembly with pulling eye on one end.	150	$4415.00
FSP94811F200A	LC to LC simplex 48-fiber 9/125µm trunk cable assembly with pulling eye on one end.	200	$4795.00

Call for Volume Discounts

- Angled patch panels facilitate proper bend radius control & minimize the need for horizontal cable managers
- Accept Mini-Com Modules for fiber, UTP, & audio/video, which snap in & out for easy moves, adds, & changes
- Mount to standard EIA 19" racks or 23" racks with optional extender brackets

CPPLA24WBLY

CPPLA48WBLY

Part #	Part Description	# of Rack Spaces^	Std. Pkg. Qty.	Std. Ctn. Qty.	
Mini-Com Angled Modular Patch Panels with Labels					
CPPLA24WBLY	24-port angled patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates.	1	1	10	$50.15
CPPLA48WBLY	48-port angled patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates.	2	1	10	$86.45
Mini-Com Modular Patch Panels with Labels					
CPPL24WBLY	24-port patch panel with labels, supplied with six factory installed CFFPL4 type front removable snap-in faceplates.	1	1	10	$27.60
CPPL48WBLY	48-port patch panel with labels, supplied with twelve factory installed CFFPL4 type front removable snap-in faceplates.	2	1	10	$49.45
Replacement Labels for Mini-Com Modular Patch Panels					
C4PPLK	Replacement label/label cover kit for Mini-Com Modular Patch Panels with Labels and Mini-Com® Modular Furniture Faceplates with Labels. Each kit contains six labels and six clear label covers per bag.	—	1	10	$1.95

CPPL24WBLY

CPPL48WBLY

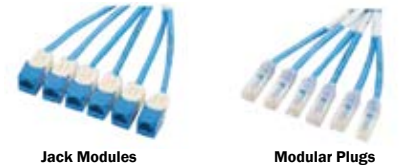^ One rack space = 1.75" (44.45mm).   M6 and #12-24 mounting screws included.

QuickNet Cable Assemblies

- Allow quick network deployment compared to field-terminated installations
- 100% performance tested to electrical permanent link specifications; shipped with permanent link test data
- Terminated in factory controlled environment for consistent network performance
- Pre-bundled with six cables for easy installation
- Plenum or riser cable flame ratings
- Category 6 UTP and Category 6A UTP/Shielded performance levels available
- Available in many common standard lengths and in one foot increments from 10 to 295 feet
- Enable multiple termination types including, pre-terminated cassettes, jack modules, modular plugs, plug pack and/or unterminated options

Pre-Terminated UTP Cassette

Pre-Terminated Shielded Cassette

Jack Modules

Modular Plugs

Description	Cable Type	Part # Template	Available Lengths (in feet)
Cat6A UTP QuickNet Cable made w/TX6A 10Gig UTP Copper Cable w/ MaTriX Technology, pre-terminated TX6A 10Gig UTP Jack Module Cassettes on each end.	Riser	**QZRBCBCBXX nn**	nn = 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75 or 80
	Plenum	**QZPBCBCBXX nn**	
Cat6A SD UTP QuickNet Cable made w/TX6A-SD 10Gig UTP Copper Cable w/MaTriX Technology, pre-terminated TX6A 10Gig UTP Jack Module Cassettes on each end.	Riser	**QXRBCBCBXX nn**	
	Plenum	**QXPBCBCBXX nn**	
Cat6 UTP QuickNet Cable made w/Cat6 UTP Cable & pre-terminated TX6 plus UTP Jack Module Cassettes on each end.	Riser	**QCRBCBCBXX nn**	
	Plenum	**QCPBCBCBXX nn**	

Plug Pack

Un-Terminated

```
  1   2   3   4   5   6   7   8   9  10  11
  Q | A | P | B | C | B | C | B | X | X | 10
```

Call for Quote

1	**Q** = QuickNet									
2	Performance Level	**B** = Cat6 Enhanced UTP	**C** = Cat6 UTP	**E** = Cat6A (TX6A 10Gig) Shielded	**X** = Cat6A (TX6A-SD 10Gig) UTP MaTriX	**Z** = Cat6A (TX6A 10Gig) UTP MaTriX				
3	Flame Rating	**R** = Riser or **P** = Plenum								
4	Cable Color	**B** = Blue or **W** = White								
5	Termination End 1	**C** = Cassette	**J** = Jack modules	**P** = Modular plugs	**K** = Jack modules staggered right	**L** = Jack modules staggered left	**Q** = Modular plugs staggered right	**S** = Modular plugs staggered left			
6	Termination End 1 Color	Jack Module Color Options **B** = Blue, **E** = Electric Ivory, **G** = Green, **H** = Off White, **I** = International Gray, **L** = Black, **O** = Orange, **R** = Red, **V** = Violet, **W** = White, **Y** = Yellow Shielded Jack Modules, chose option L (all Shielded Jack Modules are Black) Modular Plug and Unterminated Color Options **X** = No color option available, all modular plugs are clear									
7	Termination End 2	**C** = Cassette	**J** = Jack modules	**P** = Modular plugs	**A** = Plug pack (6-pack)	**R** = Recessed plug pack (6pk)	**K** = Jack modules staggered right	**L** = Jack modules staggered right	**Q** = Modular plugs staggered right	**S** = Modular plugs staggered left	**U** = Unterminated	**O** = Unterminated w/cassette & jack modules for on-site termination
8	Termination End 2 Color	Jack Module Color Options **B** = Blue, **E** = Electric Ivory, **G** = Green, **H** = Off White, **I** = International Gray, **L** = Black, **O** = Orange, **R** = Red, **V** = Violet, **W** = White, **Y** = Yellow Shielded Jack Modules, chose option L (all Shielded Jack Modules are Black) Plug Pack Color Options **B** = Blue, **W** = White, **R** = Red, **L** = Black Recessed Plug Pack Color Option **S** = Silver Modular Plug and Unterminated Color Option **X** = No color option available, all modular plugs are clear									
9	Options	**P** = Pulling eye **X** = No assembly options requested									
10	Custom Labeling*	**L** = Custom assembly label	**C** = Custom cable labels	**B** = Custom assembly and cable labels	**X** = No custom labels requested						
11	Length**	10' to 295' (one foot increments)									

Call for Volume Discounts

⓺⑨

PANDUIT

DP6A 10Gig UTP Patch Panels

DPA246X88TGY

DPA486X88TGY

DP246X88TGY

DP486X88TGY

- Exceed requirements of ANSI/TIA-568-C.2 Cat6A, IEEE 802.3an-2006, & ISO 11801 Class EA standards
- Exceed requirements of ANSI/TIA-568-C.2 Category 6A & IEC 61156-5 Category 6A component standards
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications
- Each port is 100% tested to ensure NEXT & RL performance & is individually serialized to support traceability
- Utilize 110 punchdown termination on back panel & include retention cap for each port
- Each port contains a universal label that is color-coded for T568A & T568B wiring schemes
- Contacts plated with 50 microinches of gold for superior performance
- Angled versions allow for higher density applications by easily routing the patch cords to each side of the panel eliminating the need for horizontal cable management
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket

Part #	Part Description	Rack Spaces^	
DP6A™ 10Gig ™ Angled Patch Panels			
DPA246X88TGY	24-port, angled, Cat6A, 10 Gb/s patch panel w/24 RJ45 8-position, 8-wire ports.	1	$412.65
DPA486X88TGY	48-port, angled, Cat6A, 10 Gb/s patch panel w/48 RJ45 8-position, 8-wire ports.	2	$642.35
DP6A™ 10Gig ™ Flat Patch Panels			
DP246X88TGY	24-port, Category 6A, 10 Gb/s patch panel with 24 RJ45 8-position, 8-wire ports.	1	$324.10
DP486X88TGY	48-port, Category 6A, 10 Gb/s patch panel with 48 RJ45 8-position, 8-wire ports.	2	$473.05

Mini-Com Ultimate ID TX6 PLUS Modular Patch Panel Kits

UICMPPKA6G24BL

UICMPPK6G24BL

**CPPKA6G24WBL**

CPPKLA6G24WBL

CPPK6G24WBL

CPPKL6G24WBL

- Supplied with black Mini-Com TX6 PLUS Jack Modules
- Include color-coded termination caps
- Front access faceplates in panels
- Available with or without labels
- Can be clearly identified with the PanTher LS8E or Cougar LS9 Hand-Held Thermal Transfer Printers

Part Number	Part Description	Labels Required	Rack Spaces^	
Mini-Com Ultimate ID Angled Modular Patch Panel Kit				
UICMPPKA6G24BL	24-port UICMPPA24BL angled panel w/24 CJ688TGBL jack modules.	Six 4-Port	1	$255.00
Mini-Com Ultimate ID Modular Patch Panel Kit				
UICMPPK6G24BL	24-port UICMPP24BL panel w/24 CJ688TGBL jack modules.	Six 4-Port	1	$229.95
Mini-Com Angled Modular Patch Panel Kits – with Labels				
CPPKA6G24WBL	24-port angled patch panel with 24 CJ688TGBL jack modules.	-	1	$279.00
CPPKLA6G24WBL	24-port CPPLA24WBL angled patch panel with 24 CJ688TGBL jack modules.	-	1	$281.55
Mini-Com Modular Patch Panel Kits – with Labels				
CPPK6G24WBL	24-port CPP24WBL patch panel with 24 CJ688TGBL jack modules.	-	1	$254.00
CPPKL6G24WBL	24-port CPPL24WBL patch panel with 24 CJ688TGBL jack modules.	-	1	$255.95

^One rack space = 1.75" (44.45mm).   Includes #12-24 and metric M6 screws to mount the patch panel to the rack.

DP6 PLUS UTP Patch Panels
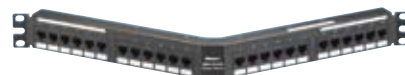
DPA24688TGY

DPA48688TGY

DP24688TGY

DP48688TGY

- Exceed ANSI/TIA-568-C.2 Cat6 & ISO 11801 2nd Edition Class E standards
- Meet requirements of IEEE 802.3af & IEEE 802.3at for PoE applications
- Each port is 100% tested to ensure NEXT & RL performance & is individually serialized to support traceability
- Utilize 110 punchdown termination on back panel & includes retention cap for each port
- Each port contains a universal label that is color-coded for T568A & T568B wiring schemes
- Angled versions allow for higher density applications by easily routing the patch cords to each side of the panel eliminating the need for horizontal cable management
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Mount to standard EIA 19" rack or 23" racks w/optional extender bracket

Part #	Part Description	Rack Spaces^	
DP6 PLUS Angled Patch Panels			
DPA24688TGY	24-port, angled, Category 6, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	$274.05
DPA48688TGY	48-port, angled, Category 6, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	$591.15
DP6 PLUS Flat Patch Panels			
DP12688TGY	12-port, Category 6, patch panel with twelve RJ45, 8-position, 8-wire ports. Mounts to 89D wall mount bracket.	—	$106.90
DP24688TGY	24-port, Category 6, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	$219.25
DP48688TGY	48-port, Category 6, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	$473.05

^One rack space = 1.75" (44.45mm).   M6 and #12-24 mounting screws included.

Call for Volume Discounts

Datacomtools.com™   Free Ground Shipping on Orders over $99.00. In the contiguous states, certain items may not apply

PANDUIT®

- Exceed ANSI/TIA-568-C.2 Category 5e & ISO 11801 Class D standards
- Meet requirements of IEEE 802.3af & IEEE 802.3at for PoE applications
- Utilize 110 termination on back panel and includes retention cap for each port
- Contacts plated with 50 microinches of gold for superior performance
- Angled versions allow for higher density installations by easily routing the patch cords to each side of the panel eliminating the need for horizontal cable management
- Terminate 4 pair, 22 - 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket

DPA245E88TGY

DPA485E88TGY

DP245E88TGY

Part Number	Part Description	Rack Spaces^	
DP5e Angled Patch Panels			
DPA245E88TGY	24-port, Cat5e, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	$199.35
DPA485E88TGY	48-port, Cat5e, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	$398.65
DP5e Flat Patch Panels			
DP125E88TGY	12-port, Cat5e, panel w/12 RJ45, 8-position, 8-wire ports. Mounts to 89D wall mount.	—	$80.55
DP245E88TGY	24-port, Cat5e, patch panel with 24 RJ45, 8-position, 8-wire ports.	1	$159.55
DP485E88TGY	48-port, Cat5e, patch panel with 48 RJ45, 8-position, 8-wire ports.	2	$318.65

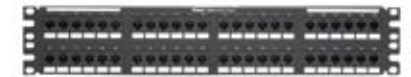^One rack space = 1.75" (44.45mm).   M6 and #12-24 mounting screws included.

DP485E88TGY

Mini-Com Jack Modules

- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialized for traceability
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability
- Can be re-terminated a minimum of twenty times
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable
- Universal termination cap is color-coded for T568A and T568B wiring schemes

Category 6A

Category 6

Part #	Part Description	Color‡	Qty.	
CJ6X88TGIW*	Cat6A, RJ45, 10 Gb/s, 8-position, 8-wire universal module.			$12.35
CJ6X88TGIW-24	Cat6A, RJ45, 10 Gb/s, 8-position, 8-wire universal module, bulk packaged			$281.25
CJ688TGIW+	Cat6, RJ45, 8-position, 8-wire, universal module	Off White	1	$8.20
CJ688TGIW-24	Cat6, RJ45, 8-position, 8-wire, universal module, bulk packaged	Off White	24	$198.72
CJ5E88TGIW‡	Cat5e, RJ45, 8-position, 8-wire universal jack module.	Off White	1	$5.98
CJ5E88TGIW-24	Cat5e, RJ45, 8-position, 8-wire universal module, bulk packaged	Off White	24	$136.35

Category 5e

*For standard colors other than Off White, replace suffix IW (Off White) with EI (Electric Ivory), WH (White), AW (Arctic White), IG (International Gray), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) or VL (Violet).
+For other colors replace suffix IW (Off White) with BL (Black).
‡For standard colors other than Off White, replace suffix IW (Off White) with WH (White), BL (Black), RD (Red), or BU (Blue).

Mini-Com Classic Series Faceplates

- Accept Mini-Com Modules for STP and UTP, fiber optic, and audio/video, which snap in and out for easy moves, adds, and changes

For other colors replace suffix IW (Off White) w/EI (Electric Ivory), WH (White), or IG (International Gray)

All faceplates supplied with mounting screws.

CFPL2IWY CFPL3IWY CFPL4IWY CFPL6IWY CFP1IW CFP2IW CFP4IW CFPH2IW CFPH4IW

Part #	Part Description	
CFPL2IWY	Vertical faceplate with 2 Modules spaces with labels	$1.89
CFPL3IWY	Vertical faceplate with 3 Modules spaces with labels	$1.89
CFPL4IWY	Vertical faceplate with 4 Modules spaces with labels	$1.89
CFPL6IWY	Vertical faceplate with 6 Modules spaces with labels	$1.89

Part #	Part Description	
CFP1IW	Vertical faceplate with 1 Module space	$1.49
CFP2IW	Vertical faceplate with 2 Modules space	$1.49
CFP4IW	Vertical faceplate with 4 Modules space	$1.49
CFPH2IW	Horizontal faceplate with 2 Modules space	$1.89
CFPH4IW	Horizontal faceplate with 4 Modules space	$1.89

Mini-Com Executive Series Faceplates

Mini-Com Shuttered Surface Mount Boxes

CFPE1IWY CFPE2IWY CFPE3IWY CFPE4IWY CFPE10IWY-2GY

CBXS1IW-A CBXS2IW-A CBXS3IW-AY CBXS4IW-AY CBXS6IW-AY

Part #	Part Description	
CFPE1IWY	Single gang, vertical faceplate with 1 Module space	$2.05
CFPE2IWY	Single gang, vertical faceplate with 2 Modules spaces	$2.05
CFPE4IWY	Single gang, vertical faceplate with 4 Modules spaces	$2.05
CFPE6IWY	Single gang, vertical faceplate with 6 Modules spaces	$2.05
CFPE10IW-2GY	Double gang, vertical faceplate with 10 Modules spaces	$4.15

Part #	Part Description	
CBXS1IW-A	Surface mount box with 1 port. 0.62"H x 1.64"W x 2.47"L	$3.80
CBXS2IW-A	Surface mount box with 2 ports. 0.94"H x 2.40"W x 2.5"L	$4.65
CBXS3IW-AY	Surface mount box with 3 ports. 0.94"H x 3.62"W x 3.31"L	$6.98
CBXS4IW-AY	Surface mount box with 4 ports. 0.94"H x 4.65"W x 3.28"L	$9.35
CBXS6IW-AY	Surface mount box with 6 ports. 0.94"H x 6.7"W x 3.28"L	$13.25
CBXSD6IW-AY	Deep surface mount box with 6 ports (includes cable routing bridge). 1.16"H x 7.58"W x 3.86"L	$15.75

Call for Volume Discounts

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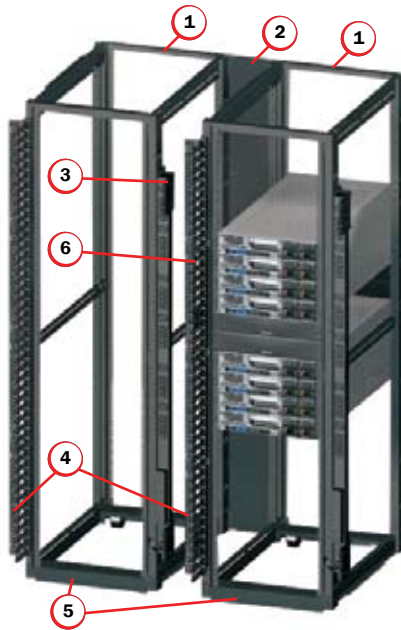
- Offered in 23", 30", 36" and 42" depths
- Offered in 84" and 96" heights
- Fully adjustable rails can be adjusted after rack is secured to floor
- Cage nut rails for server applications and tapped rails for switch applications
- 2,500 lbs. (1134 kg) load rating, UL Listed

|	Part #	Part Description	# of Rack Spaces‡	Std. Pkg. Qty.	
1	R4P36CN*	Cage nut rails, 84.0"H x 23.25"W x 36.0"D	45	1	$765.00
	R4P42CN*	Cage nut rails, 84.0"H x 23.25"W x 41.5"D	45	1	$785.00
4 Post Rack Threaded Rail					
	R4P23*	Dimensions: 84.0"H x 23.25"W x 23.0"D	45	1	$670.00
	R4P*	Dimensions: 84.0"H x 23.25"W x 30.0"D	45	1	$705.00
	R4P36*	Dimensions: 84.0"H x 23.25"W x 36.0"D	45	1	$797.95
	R4P42*	Dimensions: 84.0"H x 23.25"W x 41.5"D	45	1	$821.95
4 Post Rack Accessories					
	R4PWF	Top trough w/waterfall creates pathway above rack. 1.9"H x 26.1"W x 8.5"D	–	1	$62.40
	RSHLF23	4 post rack mount shelf. Load rating 275 lbs. 1.7"H x 19.0"W x 23.0"D	1	1	$139.75
	RSHLF	4 post rack mount shelf. Load rating 275 lbs. 1.7"H x 19.0"W x 30.0"D	1	1	$148.00
	RSHLF36	4 post rack mount shelf. Load rating 275 lbs. 1.7"H x 19.0"W x 36.0"D	1	1	$155.90
2	R4PFP	Adjustable vertical filler panel for Panduit 4 Post Racks	45	1	$145.00
5	RCSTR	4 post rack casters.	–	1	$300.00
4	CVPPB	Bracket to vertically mount 1 RU EIA 19" copper and fiber patch panels to the side of the Net-Access Cabinet posts or 4 post racks.	–	1	$49.15
	CNSPE	Net-Access Network Cabinet and 4 post rack end channel slack spools. Package includes one left and one right slack spool and mounting brackets.	–	1	$84.85
3	CVPDUB	Bracket for vertical POU mounting to the side of the Net-Access Cabinet posts or 4 post racks (kit of two).	–	1	$84.85
6	R4PFL	Left vertical finger section for cable management.	11	1	$45.05
	R4PFR	Right vertical finger section for cable management.	11	1	$45.00
	R4PFM	Finger managers for 7 and 8 foot Panduit 4 Post Racks.	–	1	$250.00
Thermal Ducts for 4 Post Racks					
	R4PAE1	Panduit 4 post rack thermal duct for use with Cisco^ 6509, 6509E, 6513, 9513 Director and Juniper 8208 switches.	–	1	$409.50
	R4PAE2	Panduit 4 post rack thermal ducting for use with Cisco^ 7018 switch.	–	1	$631.25
	R4PAE3	Panduit 4 post rack thermal ducting for use with Cisco^ 7009 switch.	–	1	$480.00

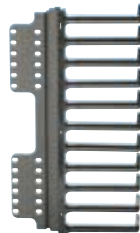*Free shipping not included   ‡One rack space = 1.75" (44.45mm).
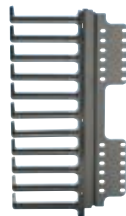
4 Post Vertical Manager Accessories
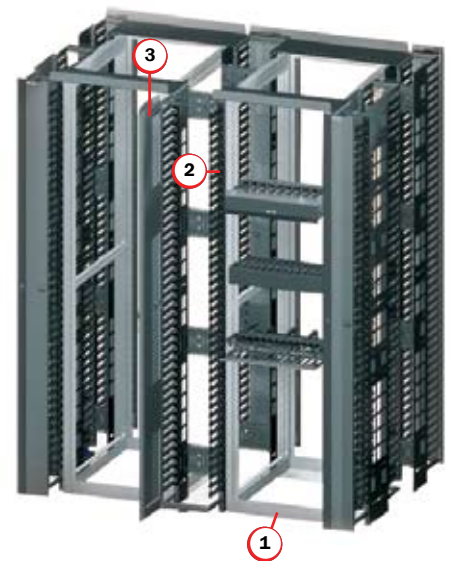
R4P36CN   R4PFM   R4PFL   R4P42   PED12   PEV12
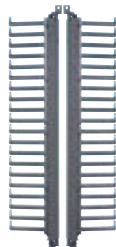
CVPDUB   R4PFR   PEVBRC12   PEVEP   PEVF12

Call for Volume Discounts

PatchRunner High Capacity Vertical Cable Management System

- High capacity minimizes area required for network layout, freeing up valuable floor space
- Allows vertical mounting of many EIA 19" accessories, such as patch panels
- Ventilated side walls provide maximum airflow for equipment cooling
- Large finger spacing accommodates up to 48 Category 6A cables
- Finger sections can be removed to improve airflow, & allow routing of large cable bundles

	Part #	Part Description	# of Rack Spaces‡	Std. Pkg. Qty.	
	4 Post Rack				
	R4P*	84.0"H x 23.25"W x 30.0"D	45	1	$705.00
	R4P23*	84.0"H x 23.25"W x 23.0"D	45	1	$670.00
	R4P36*	84.0"H x 23.25"W x 36.0"D	45	1	$797.95
1	R4P42*	84.0"H x 23.25"W x 41.5"D	45	1	$821.95
	High Capacity Dual Sided Vertical Managers				
	PEV6*	Dimensions: 83.5"H x 6.0"W x 28.1"D	45	1	$390.00
	PEV8*	Dimensions: 83.5"H x 8.0"W x 28.1"D	45	1	$404.00
	PEV10*	Dimensions: 83.5"H x 10.0"W x 28.1"D	45	1	$425.00
2	PEV12*	Dimensions: 83.5"H x 12.0"W x 28.1"D	45	1	$478.40
	High Capacity Single Sided Vertical Managers				
	PEVF6*	Dimensions: 83.5"H x 6.0"W x 15.9"D	45	1	$350.00
	PEVF8*	Dimensions: 83.5"H x 8.0"W x 15.9"D	45	1	$355.00
	PEVF10*	Dimensions: 83.5"H x 10.0"W x 15.9"D	45	1	$365.00
	PEVF12*	Dimensions: 83.5"H x 12.0"W x 15.9"D	45	1	$385.00
	PatchRunner™ High Capacity Dual Hinged Metal Doors				
	PED6*	Dimensions: 82.8"H x 6.1"W x 1.7"D	45	1	$185.35
	PED8*	Dimensions: 82.8"H x 8.1"W x 1.7"D	45	1	$205.35
	PED10*	Dimensions: 82.8"H x 10.1"W x 1.7"D	45	1	$223.80
3	PED12*	Dimensions: 82.8"H x 12.1"W x 1.7"D	45	1	$235.00
	Accessories				
	PEVEP	End Panel. Dimensions: 83.7"H x 23.2"W x .5"D		1	$195.00
	PEVBRC6	Horizontal cross brace bend radius control clips for Cable Managers PEV6 and PEVF6.		1	$31.89
	PEVBRC8	Horizontal cross brace bend radius control clips for Cable Managers PEV8 and PEVF8.		1	$42.45
	PEVBRC10	Horizontal cross brace bend radius control clips for Cable Managers PEV10 and PEVF10.		1	$53.10
	PEVBRC12	Horizontal cross brace bend radius control clips for Cable Managers PEV12 and PEVF12.		1	$63.65

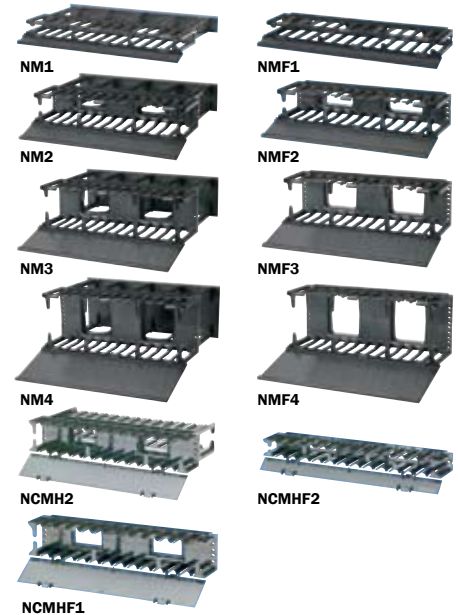Overall height for managers is 95.5" & Overall door height is 94.4"   *Free shipping not included   ‡One rack space = 1.75" (44.45mm).   All product color is black.

NetManager High Capacity Horizontal Cable Managers

- Innovative inset fingers slope inward toward back of managers offering unobstructed access to network cabling for easier moves, adds, and changes
- Large front finger openings easily accommodate Category 6 and 10 GbE cables, speeding installation and reducing maintenance costs
- Rear cable management finger spacing utilizes open D-rings for greater accessibility
- Can be used to create large capacity horizontal pathways for routing cable
- Patented front and rear dual hinged cover allows cable access without removing cover
- Curved surfaces maintain cable bend radius
- Built in cable retainers hold cable in place for easy moves, adds, and changes
- Mount to 19" EIA racks and cabinets
- Covers, #12-24 and M6 mounting screws included
- Design fits to the front of the NetRunner High Capacity WMPVHCF45E/WMPVHC45E Vertical Managers

NM1   NMF1
NM2   NMF2
NM3   NMF3
NM4   NMF4
NCMH2   NCMHF2
NCMHF1

Cable Capacity Chart for NetManager High Capacity Horizontal Cable Managers											
	Cat. 6A (.298")		Cat. 6A (.289")		Cat. 6 (.250")		Cat. 5e (.187")		Fiber (3mm)		
Part #	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Price
NM1	18	18	18	18	24	24	48	48	120	120	$59.85
NM2	54	54	54	54	78	78	138	138	348	348	$68.55
NM3	96	96	102	102	132	132	246	246	618	618	$99.25
NM4	144	144	144	144	192	192	348	348	882	882	$126.95
NMF1	18	-	18	-	24	-	48	-	120	-	$50.35
NMF2	54	-	54	-	78	-	138	-	348	-	$53.35
NMF3	96	-	102	-	132	-	246	-	618	-	$81.50
NMF4	144	-	144	-	192	-	348	-	882	-	$105.00
Cable Capacity Chart for NetManager Horizontal Cable Managers											
NCMH2	-	-	-	-	48	48	72	72	192	192	$61.20
NCMHF2	-	-	-	-	48	-	72	-	192	-	$47.00
NCMHF1	-	-	-	-	16	-	24	-	72	-	$34.98

PatchRunner High Capacity Horizontal Cable Managers

- Manage cables on switches with vertical cards or for fan avoidance cable crossover
- Curved cable management fingers support cables as they transition to the vertical pathway
- PEHF versions are depth adjustable for maximum pathway utilization
- Cable pass-through holes to the back of rack
- Mount to 19" EIA racks and cabinets
- Mounting hardware included

PEHF2   PEHF3   PEHF4

			Cable Capacity			
Part #	Part Description	No. of Rack Spaces‡	Cat6.A (0.300")	Cat.6 (0.240")	Std. Pkg. Qty.	
PEHF2	3.5"H x 18.9"W x 9.8"D*	2	92	143	1	$106.60
PEHF3	5.2"H x 18.9"W x 9.8"D*	3	166	259	1	$112.05
PEHF4	7.0"H x 18.9"W x 9.8"D*	4	240	375	1	$122.00

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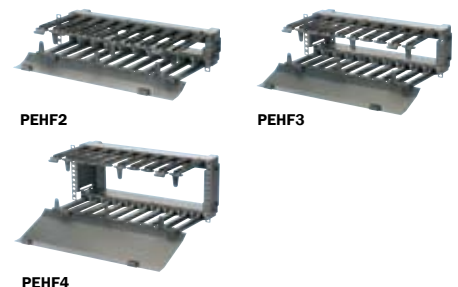
- Large finger openings accommodate up to 24 Category 6A cables
- Push button dual hinged doors ordered separately can be opened 110° to the left or right to provide complete access to the cables inside the vertical pathway
- cable retainers can be placed onto fingers to help retain cables in channel during installation/maintenance
- Vertical managers include cable retainers, mounting brackets and #12-24 screws
- For 2 post 3" channel racks and 4 post racks
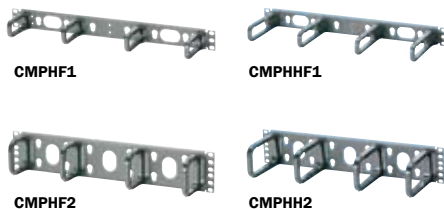
	Part Number	Part Description	# of Rack Spaces‡	Std. Pkg. Qty.	
	2 Post Rack				
	R2P*	84.0"H x 20.3"W x 3.0"D, aluminum	45	1	$205.00
	R2PS*	84.0"H x 20.3"W x 3.0"D, steel	45	1	$160.00
1	R2PW*	84.0"H x 24.3"W x 3.0"D	45	1	$205.00
	High Capacity Dual Sided Vertical Managers				
	NRV6*	Dimensions: 80.4"H x 6.7"W x 13.8"D	45	1	$348.65
	NRV10*	Dimensions: 80.4"H x 10.0"W x 13.8"D	45	1	$424.35
2	NRV12*	Dimensions: 80.4"H x 12.0"W x 13.8"D	45	1	$499.05
	High Capacity Single Sided Vertical Managers				
	NRVF6*	Dimensions: 80.4"H x 6.7"W x 7.48"D	45	1	$265.00
	NRVF10*	Dimensions: 80.4"H x 10.0"W x 7.48"D	45	1	$325.00
	NRVF12*	Dimensions: 80.4"H x 12.0"W x 7.48"D	45	1	$385.00
	High Capacity Dual Hinged Metal Doors				
	NRD6*	Dimensions: 82.8"H x 7.4"W x 1.6"D	45	1	$152.53
	NRD10*	Dimensions: 82.8"H x 10.7"W x 1.6"D	45	1	$158.65
3	NRD12*	Dimensions: 82.8"H x 12.7"W x 1.6"D	45	1	$180.25
	Accessories				
	NRVCB	NetRunner High Capacity Center Mount Bracket Kit. For use with CEA-310-E standard 2 post and Panduit 4 Post Racks.	—	1	$10.05
5	NREP	End panel for use w/NRV series, WMPVHCF45E/WMPVHC45E.	—	1	$153.92
4	WMPV45ERTW	Rack top trough with waterfall door 2 post 3" channel rack.	—	1	$119.25

‡One rack space = 1.75" (44.45mm).   All product color is black unless noted   *Free shipping not included

Open-Access Horizontal Cable Managers

CMPHF1   CMPHHF1

CMPHF2   CMPHH2

- Rack space identification allows quick and easy location of rack mount items
- 3" Rack is UL listed for 1,000 lbs. load rating
- 6" Rack is UL listed for 1,500 lbs. load rating
- Double-sided #12-24 EIA universal mounting hole spacing
- 24 #12-24 mounting screws included
- Can be used with all Panduit cable management and patch panel products in addition to any industry standard 19" components
- Paint piercing washers included to electrically bond rack for simplified grounding. For the complete grounding solution, see the Structured Ground™ Kits for Racks
- 6" Rack, R2P6S is compatible with PatchRunner™ and High Capacity PatchRunner™ Products only

Part #	Part Description	No. of Rack Spaces‡	Cable Capacity		Std. Pkg. Qty.	
			Cat.6 (0.240")	Cat.5e (0.225")		
19" Manager, Front Only						
CMPHF1	1.7"H x 19.0"W x 3.4"D	1	24	24	1	$25.75
CMPHHF1	1.7"H x 19.0"W x 5.7"D	1	24	30	1	$28.75
CMPHF2	3.5"H x 19.0"W x 3.4"D	2	54	60	1	$43.90
CMPHH2	3.5"H x 19.0"W x 5.7"D	2	96	108	1	$43.90

PatchLink Horizontal Wire Managers

WMP1E   WMPFSE

WHPH2E   WMPHF2E

WMPLFSE   WMPSE

- Rack space identification allows quick and easy location of rack mount items
- 3" Rack is UL listed for 1,000 lbs. load rating
- 6" Rack is UL listed for 1,500 lbs. load rating
- Double-sided #12-24 EIA universal mounting hole spacing
- 24 #12-24 mounting screws included
- Can be used with all Panduit cable management and patch panel products in addition to any industry standard 19" components
- Paint piercing washers included to electrically bond rack for simplified grounding. For the complete grounding solution, see the Structured Ground™ Kits for Racks
- 6" Rack, R2P6S is compatible with PatchRunner™ and High Capacity PatchRunner™ Products only

Part #	WMP1E	WMPFSE	WMPH2E**	WMPHF2E**	WMPLFSE	WMPSE
H X W X D	3.5" x 19.0" x 8.9"	1.7" x 19.0" x 3.7"	3.5" x 20.2" x 8.9"	3.5" x 20.2" x 3.7"	1.7" x 19.0" x 2.7"	1.7" x 19.0" x 8.9"
Capacity*	36 Front/Rear	18 Front Only	36 Front/Rear	36 Front Only	12 Front Only	18 Front/Rear
# of Spaces	2	1	2	2	1	1
Price	**$52.40**	**$34.95**	**$61.25**	**$47.65**	**$34.95**	**$45.50**
*Based off of Cat 6 (.250) Cable **Includes extended front covers & 2 bend radius clips.*						

Call for Volume Discounts

PANDUIT

1. Vertical Managers

- Integral retainers on the end of each finger to help contain cables within rack unit
- Bend radius fingers align w/rack spaces to support as they go to a vertical pathway
- Covers can open 110° to the left/right to provide access to cables inside.

- Retainers can be on fingers to help retain cables during installation & maintenance
- Include hinged covers, cable retainers, brackets & #12-24 screws

Part Number	WMPV45E	WMPV22E	WMPVF45E
Part Description	Front & rear vertical manager	Front & rear vertical manager	Front only vertical manager
Depth (In.)	11.8	11.8	6.5
Height (In.)	80.4	40.2	80.4
Width (In.)	4.9	4.9	4.9
Cable Capacity - Cat 6 (.250)	131 Front and 131 Rear	131 Front and 131 Rear	131 Front Only
No. of Rack Spaces	45	22	45
Price	$195.00	$97.50	$120.55

WMPVCBE   Bracket kit to mount vertical cable managers between two adjacent racks   **$8.50**

- Manage, protect, & showcase cables between patch panels on 19" EIA racks
- Capacities are based on a fill rate of 40%

- Dual Hinged Covers conceal cable pathway & provide easy access w/o removing the door
- For comparison, multiply by 1.25 for a fill rate of 50%

Part Number	WMP1E	WMPFSE	WMPH2E**	WMPHF2E**	WMPLFSE	WMPSE
Part Description	3.5"H x 19.0"W x 8.9"D	1.7"H x 19.0"W x 3.7"D	3.5"H x 20.2"W x 8.9"D	3.5"H x 20.2"W x 3.7"D	1.7"H x 19.0"W x 2.7"D	1.7"H x 19.0"W x 8.9"D
Cable Capacity*	36 Front/Rear	18 Front Only	36 Front/Rear	36 Front Only	12 Front Only	18 Front/Rear
# of Spaces	2	1	2	2	1	1
Price	$52.40	$34.95	$61.25	$47.65	$34.95	$45.50

*Based off of Cat 6 (.250) Cable **Includes extended front covers & 2 bend radius clips.*

2. PatchLink Cable Managers

Racks Sold Separately

1. PatchRunner Vertical Manager

- High density minimizes area required for network layout, freeing up floor space
- Fingers support cables as they go to the pathway removing the need for horizontal managers
- Individual fingers can be removed w/o a tool for routing of cable bundles
- Slack management spools organize patch cord slack allowing standardization of patch cords

Vertical Manager - Manage Cable on Front and Rear of Rack		Rack Space*	Price
PRV12	Vertical cable manager, Dimensions: 83.9"H x 12.0"W x 16.4"D	45	$610.00
PRV8	Vertical cable manager, Dimensions: 83.9"H x 8.0"W x 16.4"D	45	$465.00
PRV6	Vertical cable manager, Dimensions: 84"H x 6"W x 16.4"D	45	$415.00
Vertical Manager - Manage Cable on Front of Rack Only			
PRVF12	Vertical cable manager, Dimensions: 83.9"H x 12.0"W x 9.7"D	45	$390.00
PRVF8	Vertical cable manager, Dimensions: 83.9"H x 8.0"W x 9.7"D	45	$335.00
PRVF6	Vertical cable manager, Dimensions: 83.9"H x 6.0"W x 9.7"D	45	$305.00

Includes 4 PRSP7 slack spools except for PRV6 and PRVF6. *One rack space = 1.75" (44.45mm).

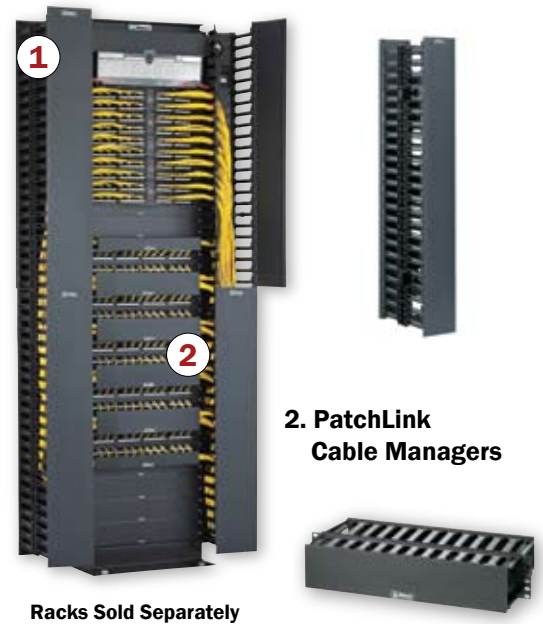| Vertical Manager - Doors		Rack Space*	Price
PRD12	Dual hinged metal door. Dimensions: 82.8"H x 12.1"W x 1.6"D	45	$325.00
PRD8	Dual hinged metal door. Dimensions: 82.8"H x 8.1"W x 1.6"D	45	$205.00
PRD6	Dual hinged metal door. Dimensions: 82.8"H x 6.1"W x 1.6"D	45	$185.00

- NetManagers manage & protect cables between patch panels on 19" EIA racks
- Capacities are based on a fill rate of 40%

- Dual Hinged Covers conceal cable pathway & provide easy access w/o removing the door
- For comparison, multiply by 1.25 for a fill rate of 50%

	Cat. 6A (.298")		Cat. 6A (.289")		Cat. 6 (.250")		Cat. 5e (.187")		Fiber (3mm)		
Cable Capacity Chart for NetManager High Capacity Horizontal Cable Managers											
Part #	Front	Back	Front	Back	Front	Back	Front	Back	Front	Back	Price
NM1	18	18	18	18	24	24	48	48	120	120	$59.85
NM2	54	54	54	54	78	78	138	138	348	348	$68.55
NM3	96	96	102	102	132	132	246	246	618	618	$99.25
NM4	144	144	144	144	192	192	348	348	882	882	$126.95
NMF1	18	-	18	-	24	-	48	-	120	-	$50.35
NMF2	54	-	54	-	78	-	138	-	348	-	$53.35
NMF3	96	-	102	-	132	-	246	-	618	-	$81.50
NMF4	144	-	144	-	192	-	348	-	882	-	$105.00
Cable Capacity Chart for NetManager Horizontal Cable Managers											
NCMH2	-	-	-	-	48	48	72	72	192	192	$61.20
NCMHF2	-	-	-	-	48	-	72	-	192	-	$47.00
NCMHF1	-	-	-	-	16	-	24	-	72	-	$34.98

2. NetManager Cable Managers

Racks Sold Separately

Waterfall Accessories

- Easy to install waterfall kit maintains bend radius control in both vertical and horizontal directions
- Base attaches to either the rung or stringer on most ladder racks
- Modular components let user configure each location where cable management is required

CMW-KIT	Waterfall kit. Provides bend radius control when transferring cables from ladder rack.	$35.30
CMWB	Waterfall base. Maintains 1.75" radius when transferring cable off of ladder rack.	$18.35
CMWW	Waterfall wing. used with CMWB to maintain 1.00" radius when transferring cable off ladder rack.	$9.89

CMW-KIT   CMWB

Call for Volume Discounts

75

Horizontal Cable Managers

WM series cable managers provide increased strength and do not interfere with panels mounted above or below. They are a popular and economical solution for providing a clean and simple means of organizing small-to-large bundles of cables and patch cords.

WM-143-5	1U cable manager with 5 S143 hangers	$40.45
WM-144-5	2U cable manager with 5 S144 hangers	$38.25
WM-145-5	2U cable manager with 5 S145 hangers	$44.75

Horizontal Cable Managers

Organize patch cords and maintain a required bend radius. Available in a wide variety of styles to suit any application. The D-Ring provides a creative solution for adding individual D-Rings to a rack or on a wall using appropriate fasteners. Select styles also available in 23" panel widths. For optimal performance, do not exceed a 50% fill rate when passing cables through cable rings. Finished in a durable black power coat.

| Part #	Description	Width	Ring Fill Area	Price
HCM-1	1 ¾" (1 sp.) "micro-clip"	19"	⅞"²	$19.60
HCM-1V	1 ¾" (1 sp.) "micro-clip" w/end D-Rings	19"	⅞"²	$34.75
HCM-1D	1 ¾" (1 sp.) "D-Ring"	19"	3 ⅛"²	$24.50
HCM-1DV	1 ¾" (1 sp.) "D-Ring" w/end D-Rings	19"	3 ⅛"²	$34.75
HCM-2D	3 ½" (2 sp.) "D-Ring"	19"	7 ½"²	$26.45
HCM-2DV	3 ½" (2 sp.) "D-Ring" w/end D-Rings	19"	6 ¼"²	$37.50
HCM-1DR	1 ¾" (1 sp.) "D-Ring" front and rear	19"	15"²	$32.35
HCM-2DR	3 ½" (2 sp.) "D-Ring" front and rear	19"	7 ½"²	$42.50

Hinged Horizontal Cable Managers

Conceal patch cables while providing cable strain relief with the new hinged horizontal wire managers. These 19" wire managers provide a strong method for organizing patch cords and maintaining the bend radius. the latching hinged front panel conceals cables dressed between components and cable chases.

| HHCM-1	1 3/4" (1 space) Hinged Horizontal Cable Manager	$32.35
HHCM-2	3 1/2" (2 space) Hinged Horizontal Cable Manager	$36.45

Lacing Bars & Panels
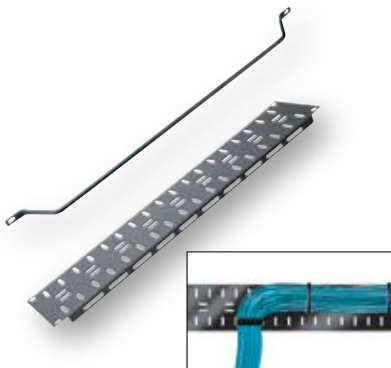
Made for 1/4" diameter rod with flattened ends (model LBP-1R, LBP-1.5 and LBP-1R4) or 3/16" thick aluminum (model LBP-1S), & finished in a black coat, each bar provides convenient cable tie points. Model LBP-1R4 features a 4" offset & model LBP-1.5 features a 1 1/2" offset. Model LBP-1A, LBP-2A, LBP-4A and LBP-6A feature a formed "L" shape, cable tie slots, & are offered in straight and 2", 4", and 6" offset models. Covers, #12-24 and M6 mounting screws included.

Use the LBP-LTF when lacing large amounts of cable of mounting devices. Two rackspaces high, the LBP-LTF features a large flange, numerous cable tie points. (Lacer Panel sold in packs of 10)

Part Number	Lacer Bar Description	Length	Price
LBP-1R	Round Rod	19"	$38.90
LBP-1S	Rectangular Bar	19"	$38.90
LBP-1A	"L" Bar	19"	$24.90
LBP-2A	"L" Bar 2" Offest	19"	$42.70
LBP-4A	"L" Bar 4" Offset	19"	$47.50
LBP-6A	"L" Bar 6" Offset	19"	$53.95
LBP-1.5	1.5" Offset Round Rod	19"	$56.00
LBP-1R4	4" Offset Round Rod	19"	$62.35

Vertical Lacing Strips
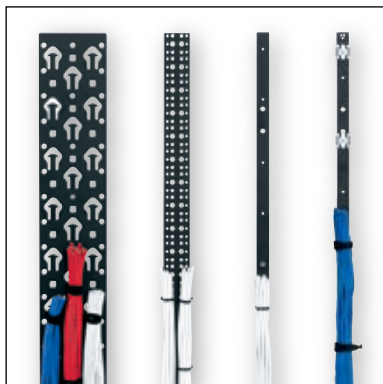
Perforated steel lacer strips mount vertically to rackrail brackets and provide many locations for securing cable ties. Lacer strips can be cut down easily to smaller sizes. LACE-OWP and LACE-OP strips with tie posts for sliding on pre-wrapped cable bundles using 3/4" hook and loop straps or cable ties. Some lacer strips also accept cage nuts or mounting of select power strips for increased versatility. All strips sold in packs of 6

Part Number	Description	Compatible Cable Management Options				Price
		Cable Ties	TSW-15	TW-12	Cage Nuts	
LACE-44-OWP	4 3/4" width, 44 space w/tie post	●	●	●	●	$160.00
LACE-40-OWP	4 3/4" width, 40 space w/tie post	●	●	●	●	$155.00
LACE-37-OWP	4 3/4" width, 37 space w/tie post	●	●	●	●	$149.00
LACE-44-OP	3 1/4" width, 44 space w/tie post	●	●	●	●	$139.50
LACE-40-OP	3 1/4" width, 40 space w/tie post	●	●	●	●	$134.25
LACE-37-OP	3 1/4" width, 37 space w/tie post	●	●	●	●	$128.95
LACE-44LP	3 1/2" width, 44 space w/tie post	●	-	●	-	$159.00
LACE-37LP	3 1/2" width, 37 space w/tie post	●	-	●	-	$139.00
LACE-P	2" width, 45 space, 1/8" thick w/round holes	●	●	-	-	$90.50
LACE-37P	2" width, 37 space, 1/8" thick w/round holes	●	●	-	-	$82.95
LACE-44-1SP	1" width, 44 space w/10 pre-installed tie saddles	●	Included	●	-	$165.00
LACE-37-1SP	1" width, 37 space w/10 pre-installed tie saddles	●	Included	-	-	$154.00
LACE-44-1P	1" width, 44 space tapped for tie saddles	●	●	-	-	$90.50
LACE-37-1P	1" width, 37 space tapped for tie saddles	●	●	-	-	$82.95

Call for Volume Discounts

NEXTFRAME® reduces installation time to the barest minimum, because components easily snap together. All NEXTFRAME® components are secure, rugged, and reliable. NEXTFRAME® relies solely on steel construction: no plastic parts to wear or break. NEXTFRAME provide unmatched flexibility. The flexibility of this system allows for upgrades as your cross connect needs change.

NEXTFRAME® adapts to changing cable volumes and transition locations, always providing a T568 compliant structure for organizing incoming backbone cabling and patch cords.

Basic NEXTFRAME® components assembled on-site built particular organizers to meed special installation needs. The assemble-to-order nature of NEXTFRAME® also means that you pay only for the features you need as you need them.

Duct Panels
Features/Benefits
- 7-rings
- 6 pass-through holes.
- Hinged front cover.
- Conceals patch cords & enhances the network appearance.

Enhanced Panels
Features/Benefits
- 7-rings
- 6 pass-through holes.
- These panels can be upgraded through the use of accessories.

Rack Width	Rack Units	Panel Height	Ring Depth	Ring Depth	Catalog No.	
19"	1U	1.75"	1.75"	-	HC119CE1N	$68.45
19"	1U	1.75"	3.50"	-	HC119CE3H1	$68.05
19"	1U	1.75"	3.50"	6.00"	HC119GC363	$145.00
19"	1U	1.75"	6.00"	-	HC119CE6H1	$68.05
19"	2U	3.50"	1.75"	-	HC219CE1N	$64.20
19"	2U	3.50"	3.50"	-	HC219CE3N	$60.25
19"	2U	3.50"	3.50"	6.00"	HC219GC363	$132.35
19"	2U	3.50"	3.50"	6.00"	HC219GC36P4	$144.00
19"	2U	3.50"	6.00"	-	HC219CE6N	$84.85
19"	2U	3.50"	3.50"	4.6"	HC219CR3N2	$80.65
19"	2U	3.50"	3.50"	4.6"	HC219CC3N3	$89.05
19"	3U	5.25"	3.50"	-	HC319CE3N	$93.15
19"	3U	5.25"	6.00"	-	HC319CE6N	$95.25

Rack Width	Rack Units	Panel Height	Front Ring	Rear Depth Rings	Catalog No.	
19"	1U	1.75"	3.50"	No	HC119ME3N	$58.80
19"	1U	1.75"	6.00"	No	HC119ME6N	$60.95
19"	2U	3.50"	3.50"	No	HC219ME3N	$58.80
19"	2U	3.50"	6.00"	No	HC219ME6N	$63.25
19"	3U	5.25"	3.50"	No	HC319ME3N	$65.00
19"	3U	5.25"	6.00"	No	HC319ME6N	$67.25

Cable Manager with Wire Saddles
Delivery:
1 - Panel assembly with cover(s),
4 - #12-24 x 5/8" dog-nosed screws
4 - #12 nylon flat washers

Basic Panels

Features/Benefits
- 4-rings.
- Solid panel.
- Use when accessories or pass-thru holes are not required.

Rack Units	Height Ring	Depth	Catalog No.	
2U	3.50"	3"	HC219ME3S	$76.20
1U	1.75"	3"	HC119ME3S	$50.95

Rack Width	Rack Units	Panel Height	Front Ring Depth	Rear Rings	Catalog No.	
19"	1U	1.75"	1.75"	No	HC119MS1N	$38.00
19"	1U	1.75"	3.50"	No	HC119MS3N	$40.15
19"	2U	3.50"	1.75"	No	HC219MS1N	$40.15
19"	2U	3.50"	3.50"	No	HC219MS3N	$38.65
23"	2U	3.50"	1.75"	No	HC223MS1N	$78.50

Horizontal Cable Management Accessories

Front/Rear Cover

- Locks in place when completely open to prevent cover from being removed.
- Snaps open and closed, no fasteners to lose or break.
- Easily removed & replaced during moves & changes.

The hinged cover can be used on the front and/or rear of the Enhanced-style NEXTFRAME™ horizontal cable management system.

1U/1.75"		2U/3.50"		3U/5.25"	
HC119C	$23.35	HC219C	$25.20	HC319C	$29.80

Vertical Management Rings

- Mounts to front of 2U and 3U panels or can be mounted directly to rack mounting rails - front or rear.

3.50" (89)		6" (152)	
HC23VR2	$35.95	HC26VR	$41.95

Rear Wire Frame

- Rugged, non-flammable, won't wear or break like plastic.
- Easy access, allowing patch cords to connect at rear of hubs.
- Round rod design prevents cable from chafing.

4.6"		6"	
HC33WF	$49.95	HC36WF	$49.95

Plastic Finger Duct Organizer

Plastic duct-style horizontal cable organizers are the traditional solution for storing and routing jumpers and patch cords on a 19" equipment rack. The slots in the finger duct accommodate precise routing of patch cords.

Delivery: 1 - Panel assembly with cover(s), 4 - #12-24 x 5/8" dog-nosed screws, 4 - #12 nylon flat washers

Rack Units	Height	Front Duct Depth	Rear Duct Depth	Catalog No.	
2U	3.50"	3"	5"	HC219CC3P	$105.45
2U	3.50"	3"	None	HC219CE3P	$82.80
1U	1.75"	3"	5"	HC119CC3P	$84.85
1U	1.75"	3"	None	HC119CE3P	$68.45

Plastic Cable Management Rings

- Adhesive or non-adhesive versions.
- Use for patch cord cable management.

Delivery: 4 rings.

Non-adhesive		Adhesive	
MCCPSR4	$24.85	MCCPSRA4	$39.40

Extender Brackets, 23"

- Brackets occupy 2 rack units.
- For use with patch panels and cable management panels.

Delivery: 2 brackets, 1 kit of mounting hardware.

BREXTB235		$38.75

Call for Volume Discounts

LEVITON®

Versi-Duct 8" Channel Cable Management
- Ideal for today's large-scale deployments & CAT 6A installations w/larger dia. cable
- 80" Channel ships in 40" pieces for easier handling and installation
- Channels available with standard or new designer cover
- Channels include cover, slack spools, and cable retainers and mounting brackets
- Included cover features unique, integrated dual-hinge for easy accessibility
- Same channels can be side or center mounted for better space utilization

Versi-Duct 5" Channel Cable Management
- Versatile accessories allow unique installation configurations
- 80" Channel now ships in two 40" pieces for easier handing and installation
- Interlocking tabs maintain flush channel alignment
- Finger spacing aligns with rack units.

Vertical Management

Horizontal Management

	Channel Size	CAT 6A (.354")		CAT 6 (.250)		CAT 5E (.180")	
		40% Fill	50% Fill	40% Fill	50% Fill	40% Fill	50% Fill
Determine which Versi-Duct size meets your needs using this capacity chart. Find your cable type, and then select 5" or 8" Versi-Duct based on current fill rate and future expansion needs. TIA recommends using a maximum of 40% for total capacity. To allow for future growth, 50% fill rate is shown							
Versi-Duct Capacity (In Numbers of Cables)							
5" Channel Size (per side)	5" x 4"	61	76	122	153	236	295
8" Channel Size (per side)	8" x 8"	182	229	366	459	708	885

Versi-Duct Channel Vertical Cable Management 8"		
8980L-VFO	Vertical 80" L, 8" W x 8" D channel w/standard hinged black cover, front only	$275.50
8980L-VFR	Vertical 80" L, 8" W x 8" D channel w/standard hinged black cover, front & back	$349.75
8C80L-VFO	Vertical 80" L, 8" W x 8"D channel w/designer hinged grey cover, front only	$275.50
8C80L-VFR	Vertical 80" L, 8" W x 8"D channel w/designer hinged grey cover, front & back	$349.00
89265-BKT	Vertical Center Mounting Bracket, 8" Channel	$21.80
89265-WR1	Vertical Wire Retainer, 8" Channel	$13.50
89265-SL1	Vertical Slack Loop Organizer, 8" Channel	$13.50

Versi-Duct Channel Vertical Cable Management 5"		
4980L-VFO	Vertical 80" L, 5"W x 4"D Channel w/standard snap-on black cover, front only	$103.45
4980L-VFR	Vertical 80" L, 5"W x 4"D Channel w/standard snap-on black cover, front & back	$158.00
4940L-VFO	Vertical 40" L, 5"W x 4"D Channel w/standard snap-on black cover, front only	$43.65
4940L-VFR	Vertical 40" L, 5"W x 4"D Channel w/standard snap-on black cover, front & back	$66.25
49265-5VC	Vertical Designer cover, 5" channel snap-on grey	$35.25
49265-BKT	Mounting bracket, 5" Channel	$12.55

Versi-Duct Horizontal Cable Management & Accessories		
492RU-HFO	Horizontal Manager, 2RU, 3"W x 3"D front, 2"W x 4"D rear*, front only	$30.10
492RU-HFR	Horizontal Manager, 2RU, 3"W x 3"D front, 2"W x 4"D rear*, front & back	$39.15
491RU-HFO	Horizontal Manager, 1RU, 1.5" W x 3"D front, 1.5" W x 4"D rear*, front only	$25.95
491RU-HFR	Horizontal Manager, 1RU, 1.5" W x 3"D front, 1.5" W x 4"D rear*, front only	$33.65

Horizontal Cable Managers

Horizontal Cable Managers
- Available in 1RU and 2RU Sizes
- All mount to standard 19" racks and cabinets
- Horizontal Managers support transition to vertical management
- Combo managers offer front and rear management

49253-LPM	Horizontal Manager, 1RU, 4" metal rings	$29.45
49253-BCM	Horizontal Manager, 2RU, 4" metal rings	$42.75
49253-2CM	Horizontal Manager, 2RU, 2" metal rings	$40.25

Call for Volume Discounts

Contents: 1 strip, 1 kit mounting hardware, universal mounting brackets

Electrical Specification	Receptacle Type	Outlets Front	Plug Type	No. of Circuits	Surge Protected	Switch	Current Monitor	Catalog No.	
15A-120V	NEMA 5-15R	10	NEMA 5-15P	1	No	No	No	PR104	$165.00
20A-120V	NEMA 5-20R	10	NEMA 5-20P	1	No	No	No	PR10420	$260.00
15A-120V	NEMA 5-15R	20	NEMA 5-15P	1	No	No	No	PR206	$215.00
20A-120V	NEMA 5-20R	20	NEMA 5-20P	1	No	No	No	PR20620	$325.00
20A-120V	NEMA 5-20R	20	NEMA 5-20P	1	No	No	No	PR20620TL****	$242.50
20A-120V	NEMA 5-20R	20	NEMA 5-20P	1	No	Yes	Yes	PR20820DRTL*	$610.00
30A-120V	NEMA 5-20R	20	NEMA L5-30P	1	No	No	No	PR20830	$445.00
20/16A/circuit 120V	NEMA 5-20R	20	NEMA 5-20P	2	No	No	No	PR20820A**	$380.75
20/16A-120/250V	IEC 320C-13	20	IEC 320 C20	1	No	No	No	PR20820I***	$380.00
30/24A-250V	IEC 320C-13	24	NEMA L6-30P	1	No	No	No	PR24	$545.00

*PR20820DRTL features a digital current meter and a 20A Twist-Lock® plug.
**PR20820A features (2) 20A circuits each fed by 10' cable with NEMA 5-20 plug.
***PR20820I includes an IEC 320 (C-20) inlet for power input.
****PR20620TL includes a Twist-Lock® plug.

Mounting Brackets for Vertical Power Strips		
L-brackets: turned "in" for rack/rail mounting; turned "out" extend mounting options an additional 8"	PRSLB4	$20.70
For left, right, front or back rail mounting; may be installed in conjunction with other equipment mounted in the same "U" space	PREZB	$22.00

Horizontal Power Strips

Delivery: 1 strip, 1 kit mounting hardware

Electrical Specification	Receptacle Type	Outlets Front	Rear	Mounting Style	Surge Protected	Transform-er Spaced	Switch	Current Monitor	Part #	
15A-120V	NEMA 5-15R	0	10	Flush	No	No	Yes	No	HPWPWR	$88.45
15A-120V	NEMA 5-15R	0	10	Flush	Yes	No	Yes	No	MCCPSS19	$165.00
15A-120V	NEMA 5-15R	4	4	Recess	Yes	Yes	No	No	MCCPSS19TS	$195.00
20A-120V	NEMA 5-20R	0	10	Flush	No	No	No	No	PR10120	$235.00
20/16A, 120/250V	IEC 320C-13	10	0	Flush	No	No	No	No	PR10720*	$210.00
15A-120V	NEMA 5-15R	0	6	Flush	No	No	No	No	PR0615	$84.35
20A-120V	NEMA 5-20R	0	10	Flush	No	No	Yes	Yes	PR1020	$530.00
60A-250V	IEC 320C-19	0	3	Adjustable	No	N/A	CB/Switch	No	PR0360**	$1305.00

*PR10720 includes an IEC 320 (C-20) inlet for power input. Vertical mount brackets are also included.
**PR0360 features 10' cable with IEC 60A 2P/3W plug.

Mounting Brackets for Horizontal Power Strips		
Adjustable mount brackets; allows numerous recess or flush mount options.	PRAMB	$33.65
Panel mount brackets; ideal for zero 'U' mounting applications by effectively allowing the unit to be hung from a cross beam or flat surface.	PRPMB	$17.35

Basic Rack PDU

Best value for simple power distribution
APC Basic Rack PDUs provide reliable power distribution via a single input with multiple output receptacles and distributes power from low amperage single phase circuits to higher-power 3-phase solutions.

A   B

	100V, 120V Input					208V 3PH Input		
B	Rack PDU Extender, 2U, 30A, 120V, (12)5-20	AP7582	$392.50		B	Rack PDU, 1U, 14.4kW, 208V, (6) C19	AP7516	$565.00

	100V, 120V Input		
A	Rack PDU, Zero U, 20A, 120V, (24)5-20	AP7530	$232.50
A	Rack PDU, Zero U, 30A, 120V, (24) 5-20	AP7532	$288.75
A	Rack PDU, Zero U, 20A, 120V, (14)5-15	AP9551	$152.50
B	Rack PDU, 1U, 30A, 120V, (10)5-20	AP9560	$216.25
B	Rack PDU, 1U, 15A, 120V, (10)5-15	AP9562	$83.75
B	Rack PDU, 1U, 20A, 120V, (10)5-20; 5-20P	AP9563	$128.75
B	Rack PDU, 1U, 20A, 120V, (10)5-20; L5-20P	AP9564	$128.75
B	Rack PDU, Zero U, 15A, 100/120V, (14) 5-15	AP9567	$153.75
	120V, 208V Input		
B	Rack PDU Extender, 2U, 30A, 100/120/200/208V, (4)L5-20	AP7580	$393.75
B	Rack PDU Extender, 2U, 30A, 100/120/200/208V, (4)L5-30	AP7583	$393.75
	200V, 208V, 230V Input		
A	Rack PDU, ZeroU,14.4kW,208V,C13,(4)C19,(2)L6-30R;10' Cord	AP7599	$882.50
A	Rack PDU, Zero U, 11 KW, 230V, (36) C13 & (6) C19	AP7557NA	$655.00
A	Rack PDU, Zero U, 20A, 208V, (20)C13 & (4)C19	AP7540	$232.50
A	Rack PDU, Zero U, 30A, 200/208V, (20)C13 & (4)C19	AP7541	$282.50
A	Rack PDU, Zero U, 16A, 230V, (20) C13 & (4) C19; IEC C20	AP7552	$232.50
B	Rack PDU Extender, 2U, 30A, 200/208V, (4)L6-20	AP7581	$393.75

B	Rack PDU Extender, 2U, 30A, 120V, (12)5-20	AP7582	$392.50
B	Rack PDU Extender, 2U, 30A, 200/208V, (4)L6-30	AP7584	$393.75
B	Rack PDU, 1U, 16A,208&230V, (10)C13 & (2)C19	AP9559	$187.50
B	Rack PDU, 1U, 16A, 208/230V, (12)C13	AP9565	$128.75
B	Rack PDU, 1U, 16A, 208V, (12)C13	AP9566	$128.75
B	Rack PDU, Zero U, 10A,230V, (15)C13	AP9568	$153.75
B	Rack PDU, 1U, 30A, 208V, (4) C19s	AP9570	$216.25
B	Rack PDU, 1U, 30A, 208V, (10) C13	AP9571A	$210.00
B	Rack PDU, Zero U, 16A, 208/230V, (15) C13	AP9572	$191.25
	208V 3PH Input		
B	Rack PDU, 1U, 14.4kW, 208V, (6) C19	AP7516	$565.00
A	Rack PDU, Zero U, 5.7kW, 120V, (42)5-20	AP7562	$287.50
A	Rack PDU, Zero U,5.7kW,120&208V,(21)5-20 & (6)L6-20	AP7563	$288.75
A	Rack PDU, Zero U, 5.7kW, 208V, (36)C13 & (6)C19	AP7564	$288.75
A	Rack PDU, Zero U, 14.4kW, 208 V, (6) C19 & (3) C13	AP7567	$707.50
A	Rack PDU,Zero U,12.5kW,208V,(30)C13,(6)C19;3' Cord	AP7568	$573.75
A	Rack PDU, Zero U,14.4kW,208V,C13,(4)C19,(2)L6-30R;3' Cord	AP7569	$867.50
A	Rack PDU,ZeroU,5.7kW,120V,(42)5-20; 10' Cord	AP7592	$293.75
A	Rack PDU,Zero U,12.5kW,208V,(30)C13,(6)C19;10' Cord	AP7598	$588.75

Call for Volume Discounts

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NetShelter SX 42U 600mm Wide x 1070mm Deep Enclosure

Standard enclosure for low to medium density server & networking applications. Compact width to optimize data center space. 42U height to easily roll through doorways.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels

Net Weight	275.20lbs.
Maximum Height	78.39"
Maximum Width	23.62"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00 lbs.
Minimum Mounting Depth	7.52"
Maximum Mounting Depth	36.02"
Rack Height	42U
Rack Width	19"
Color	Black
AR3100	**$1245.00**

NetShelter SX 45U 600mm Wide x 1070mm Deep Enclosure with Sides Black

Feature-rich enclosures optimized for easy installation, managing cables, integrating power distribution, & maximizing airflow.

Includes: Baying hardware, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual

Net Weight	301.40lbs.
Maximum Height	83.62"
Maximum Width	23.62"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	7.52"
Maximum Mounting Depth	36.02"
Rack Height	45U
Rack Width	19"
Color	Black
AR3105	**$1365.00**

NetShelter SX 48U 600mm Wide x 1070mm Deep Enclosure

Tall enclosure with 48U spaces for additional equipment. Compact width to optimize data center space. For low to medium density server & networking applications.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels

Net Weight	304.10lbs.
Maximum Height	88.90"
Maximum Width	23.62"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	7.52"
Maximum Mounting Depth	36.02"
Rack Height	48U
Rack Width	19"
Color	Black
AR3107	**$1219.00**

NetShelter SX 42U 750mm Wide x 1070mm Deep Enclosure

Wide enclosure with increased cable management options for high density server & networking applications. 42U height to easily roll through doorways.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels

Net Weight	343.10lbs.
Maximum Height	78.39"
Maximum Width	29.53"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	10.31"
Maximum Mounting Depth	36.02"
Rack Height	42U
Rack Width	19"
Color	Black
AR3150	**$1535.00**

NetShelter SX 45U 750mm Wide x 1070mm Deep Enclosure with Sides Black

Feature-rich enclosures optimized for easy installation, managing cables, integrating power distribution, & maximizing airflow.

Includes: Baying hardware, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual

Net Weight	341.00lbs.
Maximum Height	83.62"
Maximum Width	29.53"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	10.31"
Maximum Mounting Depth	36.02"
Rack Height	45U
Rack Width	19"
Color	Black
AR3155	**$1655.00**

NetShelter SX 48U 600mm Wide x 1200mm Deep Enclosure

Feature-rich enclosures optimized for easy installation, managing cables, integrating power distribution, & maximizing airflow.
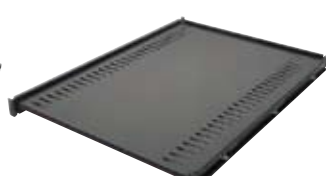
Includes: Baying hardware, Documentation CD, Key(s), Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual

Net Weight	329.00lbs.
Maximum Height	88.90"
Maximum Width	23.62"
Maximum Depth	47.24"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00 lbs.
Minimum Mounting Depth	7.52"
Maximum Mounting Depth	41.73"
Rack Height	48U
Rack Width	19"
Color	Black
AR3307	**$1925.00**

Fixed Shelf 50lbs/22.7kg Black

AR8105BLK	**$59.99**

Fixed Shelf 250lbs/114kg Black

AR8122BLK	**$99.99**

Sliding Shelf 100lbs/45.5kg Black

AR8123BLK	**$209.99**

Adjustable Shelf 250lbs 16-24" Black

AR8125	**$119.99**

Call for Volume Discounts   Free Shipping not included on APC Cabinets

NetShelter SX 42U 600mm Wide x 1200mm Deep Enclosure

Feature-rich enclosures optimized for easy installation, managing cables, integrating power distribution, and maximizing airflow.

Includes: Baying hardware, Documentation CD, Key(s), Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual

NetShelter SX 45U 600mm Wide x 1200mm Deep Enclosure with Sides Black

Feature-rich enclosures optimized for easy installation, managing cables, integrating power distribution, and maximizing airflow.

Includes: Baying hardware, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual

NetShelter SX 48U 750mm Wide x 1070mm Deep Enclosure

Tall and wide enclosure with 48U spaces for additional equipment and increased cable management options for high density server and networking applications.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels

Net Weight	295.00lbs.
Maximum Height	78.39"
Maximum Width	23.62"
Maximum Depth	47.24"
Weight Capacity)static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	7.52"
Maximum Mounting Depth	41.26"
Rack Height	42U
Rack Width	19"
Color	Black
AR3300	**$1620.00**

Net Weight	310.20lbs.
Maximum Height	83.62"
Maximum Width	23.62"
Maximum Depth	47.24"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	7.52"
Maximum Mounting Depth	41.26"
Rack Height	45U
Rack Width	19"
Color	Black
AR3305	**$1745.00**

Net Weight	372.00lbs.
Maximum Height	88.90"
Maximum Width	29.53"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	10.31"
Maximum Mounting Depth	36.02"
Rack Height	48U
Rack Width	19"
Color	Black
AR3157	**$1825.00**

NetShelter SX 42U 750mm Wide x 1070mm Deep Networking Enclosure with Sides

NetShelter SX Networking Enclosure expands APC's superior IT enclosure line with improved support for high density networking applications. Integrated high density cable managers and improved cable access roof provide support for large cable bundles. When combined with the Side Airflow Duct Kit, the Networking Enclosure ensures complete isolation of cold intake and hot exhaust air for large switches and SAN directors.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual, Vertical cable managers

NetShelter SX 42U 750mm Wide x 1200mm Deep Networking Enclosure w/Sides

NetShelter SX Networking Enclosure expands APC's superior IT enclosure line with improved support for high density networking applications. Integrated high density cable managers and improved cable access roof provide support for large cable bundles. When combined with the Side Airflow Duct Kit, the Enclosure ensures complete isolation of cold intake and hot exhaust air for large switches and SAN directors.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual, Vertical cable managers

NetShelter SX 48U 750mm Wide x 1200mm Deep Networking Enclosure w/Sides

NetShelter SX Networking Enclosure expands APC's superior IT enclosure line with improved support for high density networking applications. Integrated high density cable managers and improved cable access roof provide support for large cable bundles. When combined with the Side Airflow Duct Kit, the Networking Enclosure ensures complete isolation of cold intake and hot exhaust air for large switches and SAN directors.

Includes: Baying hardware, Documentation CD, Key(s), Keyed-alike doors and side panels, Leveling feet, Mounting Hardware, Pre-installed casters, Side Panels, User Manual, Vertical cable managers

Net Weight	343.09lbs.
Maximum Height	78.39"
Maximum Width	29.53"
Maximum Depth	42.13"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	11.00"
Maximum Mounting Depth	32.25"
Rack Height	42U
Rack Width	19"
Color	Black
AR3140	**$2105.00**

Net Weight	355.00lbs.
Maximum Height	78.39"
Maximum Width	29.53"
Maximum Depth	47.24"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	11.00"
Maximum Mounting Depth	37.75"
Rack Height	42U
Rack Width	19"
Color	Black
AR3340	**$2230.00**

Net Weight	408.00lbs.
Maximum Height	88.90"
Maximum Width	29.53"
Maximum Depth	47.24"
Weight Capacity (static load)	3000.00lbs.
Weight Capacity (dynamic load)	2250.00lbs.
Minimum Mounting Depth	11.00"
Maximum Mounting Depth	37.75"
Rack Height	48U
Rack Width	19"
Color	Black
AR3347	**$2039.00**

Sliding Shelf 200lbs/91kg Black

AR8128BLK	$399.99

Double Sided Fixed Shelf for 2-Post Rack 250 lbs Black

AR8422	$89.99

17" Keyboard Drawer Black

AR8126ABLK	$229.99

19" Rotating Keyboard Drawer Black

AR8127BLK	$369.99

Free Shipping not included on APC Cabinets

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U2 Rackmount Shelf

These Easy-to-install universal shelves accommodate components up to 17 3/8" wide. Made from 16-gauge steel, finished in a durable black powder coat and individually boxed.

Part #	Racking Height	Overall Depth	Usable Depth	Weight	Price
U1	1 3/4" (1 Space)	10 3/4"	10 11/16"	35lbs.	$28.75
U2	3 1/2" (2 Space)	14 9/16"	14 3/8"	50lbs.	$42.50
U3	5 1/4" (3 Space)	14 9/16"	14 3/8"	70lbs.	$52.65
U4	7" (4 Space)	15 1/2"	15 5/16"	85lbs.	$58.35

Vented 2 Space Center-Mount Rackshelf

Ideal for use in our open frame racks. Constructed from 16-gauge steel & finished in durable black powder coat

Depth 18"
Height 3 1/2" (2 space)
Weight 50lb

U2MS	Vented 2 Space Center-Mount Rackshelf	$74.50

Vertical Wall Mount Panel

- Can accommodate all depths of equipment
- Mounts horizontally/vertically for versatile placement
- Heavy duty threaded rackrail
- Available in 2, 3 or 4 rackspace models

VPM-2	2 space, vertical wall mount panel	$72.05
VPM-3	3 space, vertical wall mount panel	$80.19
VPM-4	4 space, vertical wall mount panel	$88.23

EZ Mount Network Shelf

The EZ Mount Network Shelf is the premier product of iNNOdata, LTD. It is the very first product of its kind to allow complete installation of a small LAN/Telecom network (up to 48 drops - expandable to a maximum of 96 drops) in an extremely limited space. It saves Space, Time and Money!

Includes:
- (8) 10-32 Screws   - (1) Ground Screw   - (4) 6" Velcro Strips   - Blank Plate
- Mounting Template   - Slots provided on shelf deck for tie-down w/velcro straps

EZMS	EZ Mount Network Shelf	$199.00

EZ Mount Wall Swivel Bracket

The EZ Mount Wall Swivel Bracket was finally created after many suggestions from contractors and end users alike. It is the best solution for mounting up to a 48 port patch panel on a wall. It swivels within its own space, and, provides a solid punchdown surface, without the technician having to support the punchdown process with the other hand!

Includes:
- (8) 10-32 Screws   - (4) 12-24 Screws   - Ground Screw   - Locking Positions
- (1) each left and right hand bracket with swivel assemblies, rear wire manager.

EZMBL	EZ Mount Wall Swivel Bracket	$85.00

Call for Volume Discounts

Hinged Plexiglass Security Covers

Incorporating a steel frame and a keylocked 3/16" smoked-gray plexiglass door, our SECL Series locking security covers are offered in 2, 3, 4, and 8 space sizes. Each unit's depth of 1 1/2" easily clears controls on most equipment.

SECL-2	Hinged plexiglass security covers 3 1/2" (2 space)	$57.65
SECL-3	Hinged plexiglass security covers 5 1/4" (3 space)	$62.37
SECL-4	Hinged plexiglass security covers 7" (4 space)	$67.07
SECL-8	Hinged plexiglass security covers 14" (8 space)	$94.70

Fixed Writing/Computer Keyboard Shelf

The FWS fixed single bay writing/computer keyboard shelf bolts quickly to any 19" rack to create an ideal workspace. it occupies 2 rackspaces and comes complete with special rail-mounting hardware.

Depth: 18" **Capacity:** 100lbs

FWS	Fixed writing/computer keyboard shelf	$101.45

Vented 3 Space Rackshelf

17 3/4" deep by 5 1/4" high, this vented rackshelf has a 60lb. weight capacity and a rear flange slotted for horizontal cable management. Constructed from 16-gauge steel and finished in a black powder coat.

D: 17 3/4" **W:** 17.44" **H:** 5 1/4" (3 spaces) **Capacity:** 60lbs

U317	Vented 3 space rackshelf	$70.79

Wall Mount Shelf

Wall mounting non-rackmount components is much easier with our fully welded WMS wall mount shelf. The bottom is vented to help keep things cool and features 1/2" and 3/4" electrical knockouts for cable pass-through.

Depth: 17" **Capacity:** 200lbs.

WMS-20	Wall mount shelf	$105.10

Wide Unit Shelf System

Accommodating components too wide to fit the 17 3/8" inside width of standard rackshelves, these shelf systems fit units up to 22 1/2" wide, and either bolt into millwork or to the mounting angle of standard rackrail. Measuring 5 1/4" high, this shelf saves room by requiring no rack-spaces. The WUSS system comes complete with a pair of ears, a bottom, and appropriate assembly hardware.

NOTE: This rackshelf works with all Middle Atlantic Product enclosures with the exception of the VMRK-54, which uses 'Z-Rail'.

Part #	Depth	Capacity	Price
WUSS11.5	11 1/2"	50lbs	$65.61
WUSS14*	14"	50lbs	$63.88
WUSS15.5	15 1/2"	50lbs	$65.61
WUSS17.5	17 1/2"	50lbs	$68.46
WUSS20.5	20 1/2"	50lbs	$73.04

*Available in 14" depth - fits DWR Series and other shallow racks!

The OneTouch™ AT Network Assistant is an all-in-one Gigabit Ethernet troubleshooter for copper, fiber optic and Wi-Fi networks. It provides a client view of network performance so you can resolve problems fast and complete deployment projects on time.

- Reduce troubleshooting time with a one touch AutoTest and an intuitive user interface
- Identify the source of a network problem by measuring the performance of essential net work infrastructure and services
- Increase the troubleshooting expertise of your network support staff with standardized test profiles tailored to your network, services and users
- Resolve the most difficult problems faster by streamlining collaboration between your support staff, consultants & manufacturers by utilizing inline packet captures and remote control
- Deploy network infrastructure & services more efficiently & validate and optimize its performance with a comprehensive AutoTest & Veri-Fi wireless LAN operational performance test

All-in-one
The OneTouch AT incorporates two 10/100/1000 Mbps RJ-45 Ethernet test ports, two 100/1000 Mbps SFP fiber optic transceiver ports and an internal 802.11 a/b/g/n dual band radio. Test your wired Ethernet & wireless Wi-Fi networks & easily compare performance with side-by-side results.

Solve complex issues
Capture traffic when a packet-level view is required to solve a network or application issue. Filter the traffic to capture what is most important. Export the capture file via the management port or SD card to your favorite protocol analyzer for decoding and analysis.

Performance measurement from the cable to the cloud
The cause of a network problem can be elusive. The OneTouch AT identifies problem root cause by measuring and analyzing the performance of the critical network components: the network cabling, the delivery of Power over Ethernet, the connection to the nearest switch, the connection to the nearest access point, and the performance of key network services and applications.

Tap into the relevant traffic easily
Use the built-in inline aggregating copper and fiber optic TAP to access the traffic running between the client and the network. Avoid the complexity, time & cost required to configure switch mirror ports or to install standalone TAPs.

Copper and fiber optic cable testing
Understand cable performance by measuring twisted pair cable wiremap and length. Use cable identifiers and IntelliTone toning to locate and identify cables. Measure the optical power received through fiber optic cables. Verify the cleanliness of fiber optic connections by viewing connector end faces with the FiberInspectoR USB video probe.

Save test results
Save the AutoTest performance data in a PDF report to share with colleagues or outside parties, for trouble ticket documentation, as a record of historical performance for benchmarking & as a certification report after a new infrastructure deployment.

General	
Dimensions	10.3 in x 5.3 in x 2.9 in
Weight	3.5 lb (1.6 kg)
Display	5.7 in (14.5 cm) LCD with projected capacitance touch screen, 480 x 640 pixels
AC adapter	Input: 100-240 Vac, 50-60 Hz, 1.0 A
	Output: +15 Vdc, 2.0 A
	Battery type Lithium ion battery pack, 7.2 V
Battery life	Approximately 3-4 hours depending on type of usage, 4 hours to charge from 10% capacity to 90% capacity with the unit powered off
Memory	Internal: 2GB shared between system & user files
	SD card: 4 GB, brand and model selected for optimal performance
	USB 2.0 A port: for use w/USB storage devices
Network analysis ports	Two RJ-45 10/100/1000BASE-T Ethernet
	Two SFP 100BASE-FX/1000BASE-X Ethernet
Management port	One RJ-45 10/100BASE-T Ethernet
Wi-Fi adapter data rate	802.11a: 6/9/12/24/36/48/54 Mbps
	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/24/36/48/54 Mbps
	802.11n (20 MHz): MCS0-23, up to 216 Mbps
	802.11n (40 MHz): MCS0-23, up to 450 Mbps

Wi-Fi adapter operating frequency	2.412 ~ 2.484 GHz (Industrial Scientific Medical Band)
	5.170 ~ 5.825 GHz
Wi-Fi security	64/128-Bit WEP Key, WPA, WPA2, 802.1X
Environmental and Regulatory	
Operating temperature	32°F to 122°F (0°C to 50°C)
Battery charging temperature	32°F to 104°F (0°C to 40°C)
Storage temperature	-40°F to 160°F
	-4°F to 122°F for periods longer than 1 week
Operating humidity (% RH without condensation)	5% to 45% at 32°F to 122°F (0°C to 50°C)
	5% to 75% at 32°F to 104°F (0°C to 40°C)
	5% to 95% at 32°F to 86°F (0°C to 30°C)
Shock and vibration	Meets the requirements of MIL-PRF-28800F for Class 3 Equipment
Safety	CAN/CSA-C22.2 No. 61010-1-04, IEC 61010-1:2001
Operating altitude	13,123 ft (4,000 m), 10,500 ft (3,200 m) with AC adapter
Storage altitude	39,370 ft (12,000 m)
Pollution degree	2
EMC	EN 61326-1:2006

1T-1000	OneTouch AT Network Assistant Copper/Fiber LAN option	$4995.00
1T-2000	OneTouch AT Network Assistant with Copper/Fiber LAN and Wi-Fi options	$7995.00
1T-3000	OneTouch AT Network Assistant with Copper/Fiber LAN, Wi-Fi, inline and capture options	$9995.00

1T-1000 includes module and test frame, frame carry strap, AC adapter and line cord, wiremap adapter #1, RJ45 coupler, RJ45 patch cable, accessories pouch, carrying case, getting started guide, and resource CD with user manual
IT-2000 includes module and test frame, frame carry strap, AC adapter and line cord, wiremap adapter #1, RJ45 coupler, RJ45 patch cable, external directional antenna with mounting clip, accessories pouch, carrying case, getting started guide, and resource CD with user manual
IT-3000 includes module and test frame, frame carry strap, AC adapter and line cord, wiremap adapters #1 - #6, RJ45 coupler, RJ45 patch cable, external directional antenna with mounting clip, SD card, USB SD card reader, USB flash drive, two 1000BASE-SX SFP fiber transceivers, accessories pouch, carrying case, getting started guide, and resource CD with user manual

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■ 10GB Fiber Optic Patch Cords
■ 62.5/125μm Fiber Optic Patch Cords
■ 50/125μm Fiber Optic Patch Cords

LC Fiber End   **ST Fiber End**   **SC Fiber End**

10G	SC-SC Connector		SC-LC Connector		LC-LC Connector	
1 Meter	SCSC10G-1M	$22.40	SCLC10G-1M	$25.25	LCLC10G-1M	$25.45
3 Meters	SCSC10G-3M	$26.25	SCLC10G-3M	$29.85	LCLC10G-3M	$30.00
5 Meters	SCSC10G-5M	$30.35	SCLC10G-5M	$34.35	LCLC105-5M	$34.55
10 Meters	SCSC10G-10M	$40.30	SCLC10G-10M	$45.75	LCLC10G-10M	$45.95
62.5/125	**ST-ST Connector**		**ST-SC Connector**		**SC-SC Connector**	
1 Meter	STST6-1M	$17.95	STSC6-1M	$19.25	SCSC6-1M	$20.25
3 Meters	STST6-3M	$20.00	STSC6-3M	$21.25	SCSC6-3M	$22.40
5 Meters	STST6-5M	$22.25	STSC6-5M	$23.50	SCSC6-5M	$24.50
10 Meters	STST6-10M	$27.75	STSC6-10M	$28.75	SCSC6-10M	$29.90
62.5/125	**SC-LC Connector**		**LC-LC Connector**		**ST-LC Connector**	
1 Meter	SCLC6-1M	$21.25	LCLC6-1M	$22.85	STLC6-1M	$20.25
3 Meters	SCLC6-3M	$23.55	LCLC6-3M	$25.15	STLC6-3M	$22.55
5 Meters	SCLC6-5M	$25.80	LCLC6-5M	$27.75	STLC6-5M	$24.85
10 Meters	SCLC6-10M	$31.50	LCLC6-10M	$33.75	STLC6-10M	$30.45
50/125	**ST-ST Connector**		**SC-SC Connector**		**LC-LC Connector**	
1 Meter	STST5-1M	$17.95	SCSC5-1M	$20.25	LCLC5-1M	$22.85
3 Meters	STST5-3M	$20.00	SCSC5-3M	$22.40	LCLC5-3M	$25.25
5 Meters	STST5-5M	$22.25	SCSC5-5M	$24.55	LCLC5-5M	$27.69
10 Meters	STST5-10M	$27.75	SCSC5-10M	$29.90	LCLC5-10M	$33.75

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